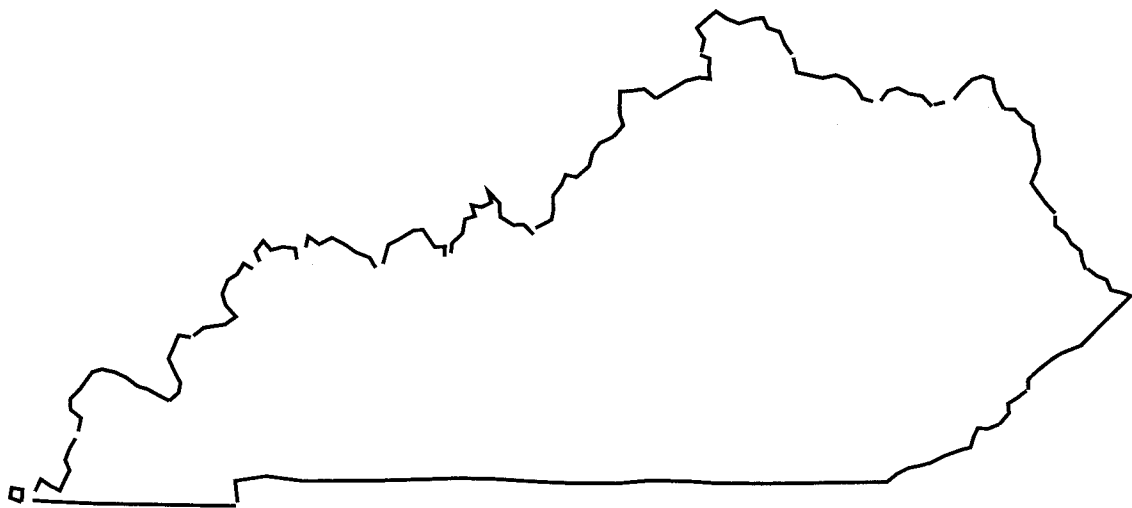


# Water Resources Data Kentucky Water Year 1996



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT KY-96-1  
Prepared in cooperation with the Commonwealth of  
Kentucky and with other agencies

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Discharge measurements made at special study and miscellaneous sites during water year 1996

Stream	Tributary to	Location	Drainage area (mi <sup>2</sup> )	Measured previously (water years)	Measurements	
					Date	Discharge (ft <sup>3</sup> /s)
GREEN RIVER BASIN						
03316000	Green	Lat 37 00'15", long 86 54'02",	90.5	1940-72,	12-07-93b	287b
Mud River	River	Logan County, at bridge on		1978,	6-22-94b	10b
		Highway 106, 2.5 mi northwest		1980,		
		of Lewisburg, and 7.5 mi downstream		1988,		
		from Motts Lick Creek.		1990-96	12-07-95	22.8
					4-11-96	115
					7-18-96	29.9

b Not previously published

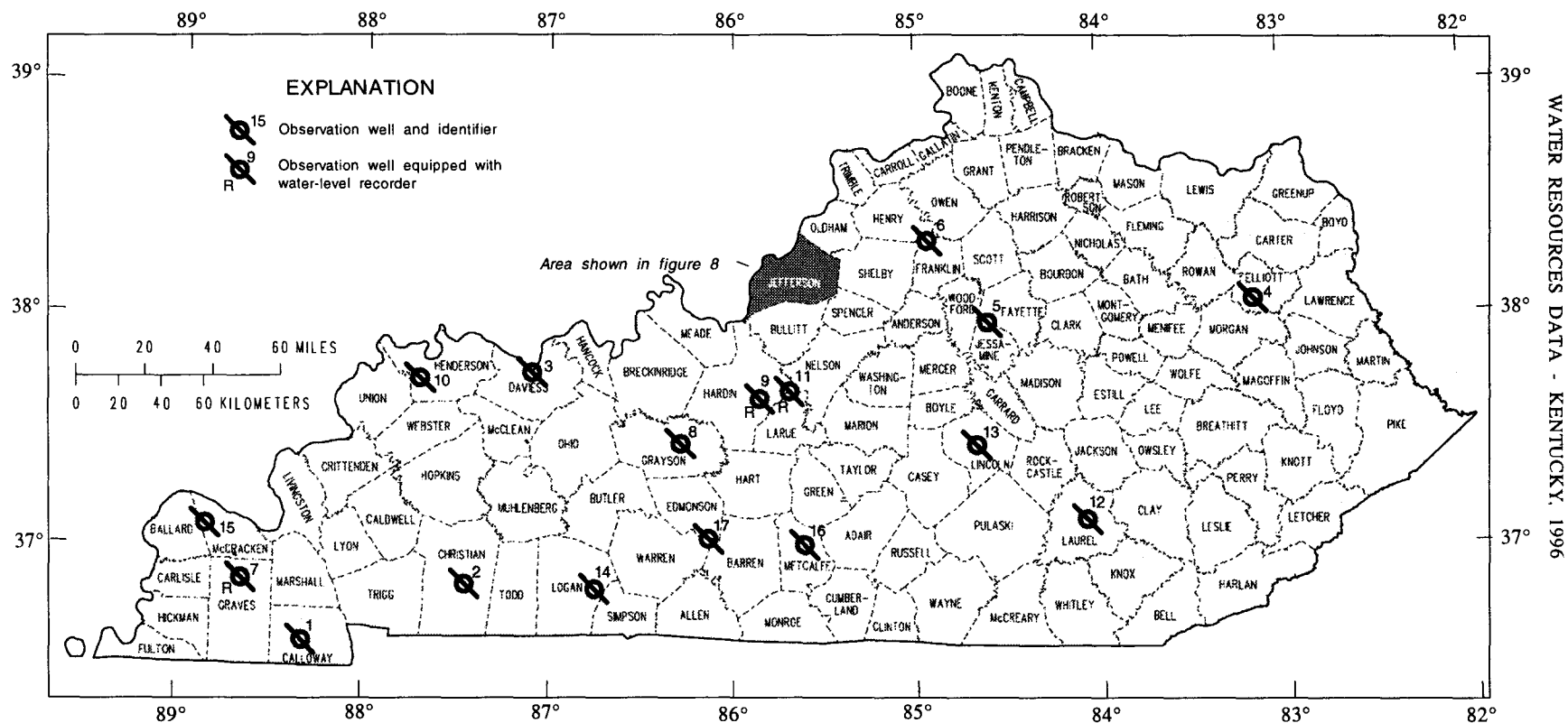
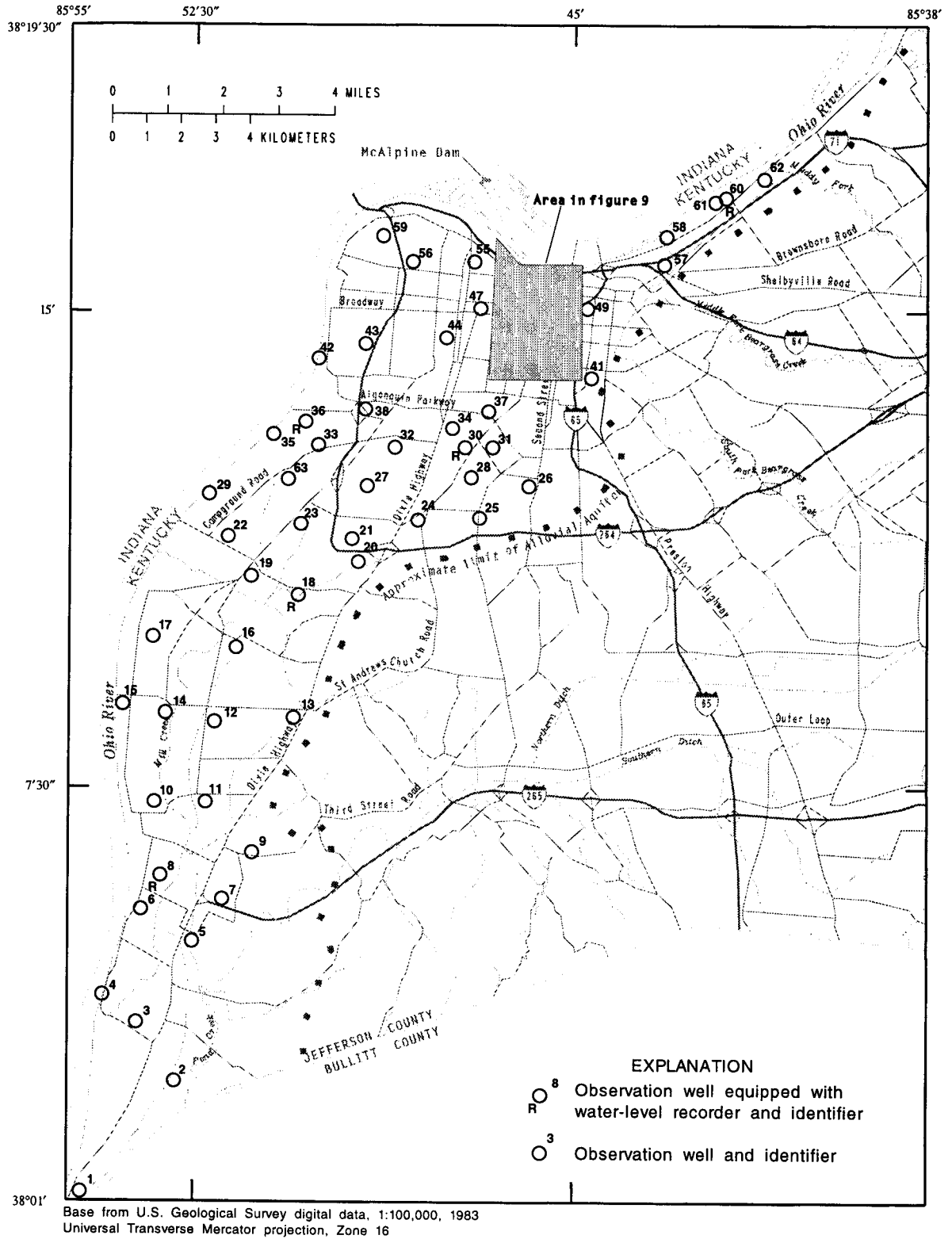


Figure 7. Location of observation wells in Kentucky.

## WATER RESOURCES DATA - KENTUCKY 1996



**Figure 8.** Location of observation wells in Jefferson County.

## WATER RESOURCES DATA - KENTUCKY, 1996

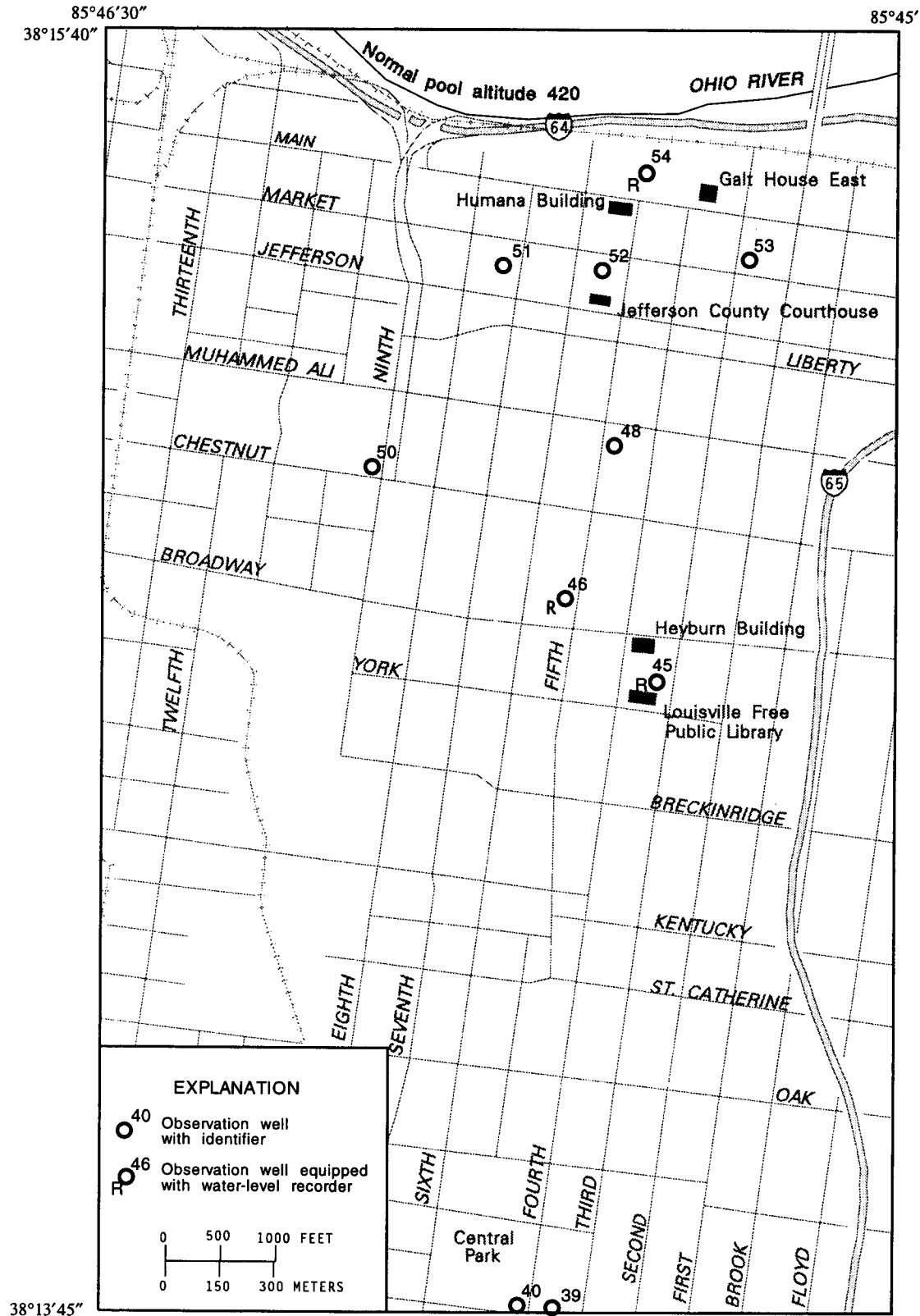


Figure 9. Location of observation wells in downtown Louisville.

## GROUND-WATER LEVELS

## CALLOWAY COUNTY

363634088191601. Map number 1.

LOCATION.--Lat 36°36'34", long 88°19'16", Hydrologic Unit 06040006, County Code 035, Murray quadrangle, 200 ft southeast of the intersection of 15th and Main Streets, in Murray. Owner: Joe Parks.

AQUIFER.--Sand of McNairy Formation of Late Cretaceous age. Aquifer code: 211MCNR.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in., depth 345 ft, screened 290-328, 330-334 ft.

INSTRUMENTATION.--Six-week interval measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 549.14 ft above sea level. Measuring point: Floor of recorder shelter 4.75 ft above land-surface datum.

REMARKS.--Reported that well was used for several years to dispose of waste motor oil from a gasoline service station.

PERIOD OF RECORD.--March 1948 to September 1983 and October 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 123.23 ft below land-surface datum, Mar. 3, 1953; lowest measured, 130.09 ft below land-surface datum, Aug. 8, 1969.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 10, 1995	125.30	Jan. 8, 1996	124.38
Dec. 8, 1995	124.77	Feb. 23, 1996	124.61

## CHRISTIAN COUNTY

365142087270401. Map number 2.

LOCATION.--Lat 36°51'42", long 87°27'04", Hydrologic Unit 05130205, County Code 047, Hopkinsville quadrangle, at Western State Hospital, 75 ft west of gravel road, 500 ft south of U.S. Highway 68, 2.0 mi east of Hopkinsville. Owner: State of Kentucky.

AQUIFER.--Ste. Genevieve Limestone of Late Mississippian age. Aquifer code: 333SGVV.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 8 in., depth 85 ft, cased to 10 ft.

INSTRUMENTATION.--Six-week interval measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum (from topographic map) is about 550 ft. Measuring point: Floor of shelter 3.06 ft above land-surface datum.

PERIOD OF RECORD.--February 1950 to September 1983 and October 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.26 ft below land-surface datum, Feb. 22, 1961, lowest measured, 25.01 ft below land-surface datum, Sept. 25, 1970.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 4, 1995	14.82	Jan. 11, 1996	12.68
Dec. 7, 1995	15.67	Feb. 22, 1996	12.41

## DAVIESS COUNTY

374638087054101. Map number 3.

LOCATION.--Lat 37°46'38", long 87°05'41", Hydrologic Unit 05140201, County Code 059, Owensboro East quadrangle, at Owensboro Municipal Utilities water treatment plant, 100 ft south of south bank of Ohio River, 0.1 mi northeast of Daviess County High School, 0.3 mi north of U.S. Highway 60, in Owensboro. Owner: Owensboro Municipal Utilities.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 1120TSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 12 in., depth 104 ft, screened 74 to 104 ft.

INSTRUMENTATION.--Six-week interval measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum (from topographic map) is about 405 ft. Measuring point: Floor of recorder shelter 4.33 ft above land-surface datum.

REMARKS.--Water level affected by pumping from nearby wells.

PERIOD OF RECORD.--February 1951 to September 1983 and March to September 1990.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 18.16 ft below land-surface datum, May 5, 1983; lowest, 63.21 ft below land-surface datum, Sept. 17, 1970.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 6, 1995	53.79	Jan. 9, 1996	53.62
Dec. 5, 1995	56.00	Feb. 20, 1996	54.94

## GROUND-WATER LEVELS

223

## ELLIOTT COUNTY

380425083091901. Map number 4.

LOCATION.--Lat 38°04'25", long 83°09'19", Hydrologic Unit 05090104, County Code 063, Sandy Hook quadrangle, in a hay field, 100 ft south of a tobacco barn, 250 ft north of State Highway 7, 1.9 mi southwest of Sandy Hook. Owner: Roy Adkins.

AQUIFER.--Lee Formation of Early Pennsylvanian age. Aquifer code: 327LEE.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 5 in., depth 70 ft, length of casing unknown, open hole below casing.

INSTRUMENTATION.--Six-week interval measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum (from topographic map) is about 780 ft. Measuring point: Floor of recorder shelter 3.55 ft above land-surface datum.

REMARKS.--Pump test run Oct. 10, 1965. Estimated yield based on recovery, 0.4 gal/min.

PERIOD OF RECORD.--September 1952 to September 1984 and July 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.50 ft below land-surface datum, July 18, 1971; lowest measured, 46.35 ft below land-surface datum, Dec. 17, 1953.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level	Date	Water Level
Oct. 3, 1995	25.00	Jan. 23, 1996	23.95	Apr. 9, 1996	23.36
Nov. 21, 1995	24.23	Mar. 6, 1996	23.53		

## FAYETTE COUNTY

375928084362001. Map number 5.

LOCATION.--Lat 38°59'28", long 84°36'20", Hydrologic Unit 05100205, County Code 067, Nicholasville quadrangle, 50 ft west of a farmhouse, 15 ft east of an old chicken house, 600 ft north of where Keene Road crossed the Fayette-Jessamine County line, 1.2 mi southwest of South Elkhorn. Owner: Donald Todd, formerly M.A. Kehrt.

AQUIFER.--Grier Limestone Member of Lexington Limestone of Middle Ordovician age. Aquifer code: 364GRIR.

WELL CHARACTERISTICS.--Drilled unused artesian and water-table well, diameter 6 in., depth 132 ft, cased to 15 ft, open hole 15 to 132 ft.

INSTRUMENTATION.--Six-week interval measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum (from topographic map) is about 940 ft. Measuring point: Floor of recorder shelter 2.75 ft above land-surface datum.

REMARKS.--Lowest water level is a pumping level.

PERIOD OF RECORD.--November 1952 to September 1984 and June 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.67 ft below land-surface datum, Jan. 11, 1974; lowest measured, 48.56 ft below land-surface datum, Mar. 12, 1954.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level	Date	Water Level
Oct. 11, 1995	12.42	Jan. 11, 1996	12.15	Mar. 28, 1996	10.72
Nov. 30, 1995	12.34	Feb. 16, 1996	12.52		

## FRANKLIN COUNTY

382031084553901. Harp Road Test Well. Map number 6.

LOCATION.--Lat 38°20'31", long 84°55'39", Hydrologic Unit 05100205, County Code 073, Polsgrove quadrangle, in a pasture at an old farmhouse site, 50 ft north of Harp Road, 2.3 mi northeast of junction of Harp Road and U.S. Highway 421, 2.3 mi southwest of Polsgrove. Owner: Franklin County.

AQUIFER.--Kope and Clays Ferry Formations of Late Ordovician age (previously published as Lexington Limestone of Middle Ordovician age). Aquifer code: 361KOCL (previously published as 364LXNG).

WELL CHARACTERISTICS.--Drilled unused artesian and water-table test well, diameter 6 in., depth 450 ft, cased to 15 ft.

INSTRUMENTATION.--Six-week interval measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum (from topographic map) is about 890 ft. Measuring point: Top of pipe plug, 50 ft above land-surface datum.

PERIOD OF RECORD.--August 1973 to January 1983 and October 1988 to current year. August 1973 to September 1976 published in hydrograph form and on file at district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.87 ft below land-surface datum, Sept. 14, 1979; lowest measured, 119.82 ft below land-surface datum, Sept. 12, 1973.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level	Date	Water Level
Oct. 4, 1995	42.70	Jan. 10, 1996	35.50	Mar. 26, 1996	32.93
Nov. 29, 1995	38.27	Feb. 15, 1996	39.50		

## GROUND-WATER LEVELS

## GRAVES COUNTY

365210088391301. Map number 7.

LOCATION.--Lat 36°52'10", long 88°39'13", Hydrologic Unit 08010201, County Code 083, Hickory quadrangle, in a cultivated field, 200 ft east of a private road, 1.2 mi northwest of Viola. Owner: J. Whittemore.

AQUIFER.--Sand of Claiborne Group of Eocene age. Aquifer Code: 124CLBR.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in., depth 106 ft, cased to 85 ft, screened 85-105 ft.

INSTRUMENTATION.--ADR recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 405.65 ft above sea level. Measuring point: Floor of shelter, 4.03 ft above land-surface datum.

PERIOD OF RECORD.--February 1951 to September 1984 and October 1988 to current year.

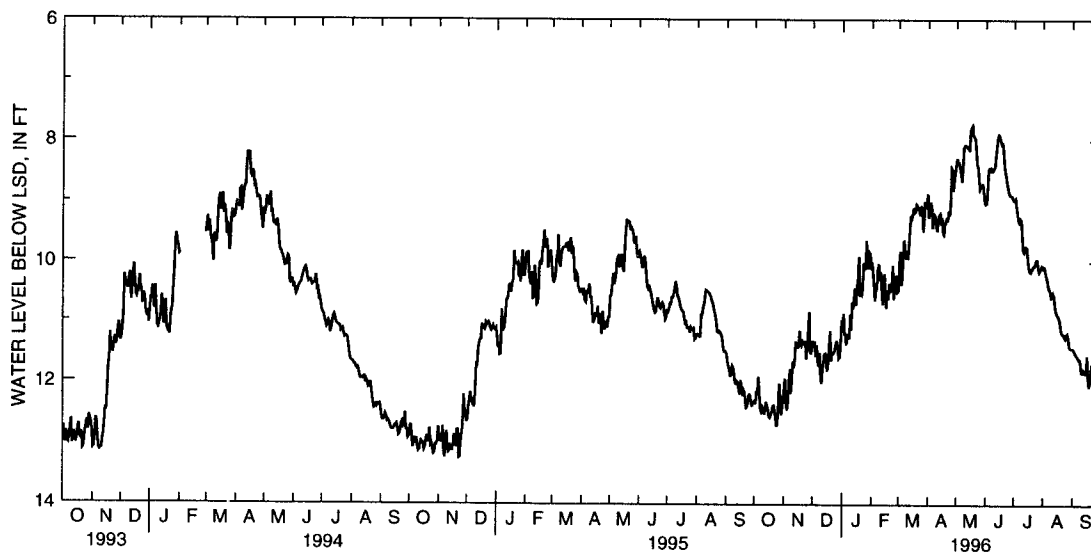
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.75 ft below land-surface datum, May 17, 1996; lowest measured, 19.24 ft below land-surface datum, Jan. 10, 1975.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

## DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.31	12.06	11.32	11.03	10.04	10.01	9.26	8.28	9.02	8.98	10.07	11.44
2	12.36	11.95	11.38	10.87	10.22	9.82	9.19	8.34	8.86	8.95	10.08	11.47
3	12.16	12.33	11.36	11.22	10.43	10.38	9.00	8.35	8.50	9.09	10.16	11.50
4	12.16	12.46	11.58	11.18	10.64	10.26	9.08	8.43	8.43	9.22	10.24	11.54
5	11.92	12.33	11.39	11.38	10.47	9.84	9.43	8.53	8.50	9.31	10.31	11.56
6	12.16	12.01	11.66	11.25	10.43	9.63	9.26	8.66	8.44	9.36	10.41	11.58
7	12.44	11.79	11.74	11.20	10.13	9.81	9.21	8.39	8.46	9.28	10.45	11.62
8	12.49	12.19	11.52	11.28	10.03	9.94	9.24	8.12	8.48	9.31	10.49	11.62
9	12.42	11.93	11.93	10.88	10.30	9.90	9.40	8.07	8.45	9.56	10.59	11.69
10	12.47	11.66	12.02	11.14	10.16	9.92	9.48	8.07	8.42	9.80	10.58	11.83
11	12.53	11.76	11.81	10.67	10.44	9.73	9.30	8.08	8.26	9.83	10.52	11.84
12	12.47	11.65	11.67	10.78	10.71	9.40	9.21	8.11	8.11	9.77	10.57	11.80
13	12.33	11.33	11.54	10.58	10.48	9.22	9.19	8.10	7.94	9.74	10.74	11.83
14	12.38	11.44	11.53	10.43	10.19	9.26	9.37	8.16	7.90	9.76	10.83	11.85
15	12.44	11.39	11.63	10.72	10.49	9.20	9.25	7.83	7.92	9.97	10.87	11.84
16	12.57	11.43	11.82	10.43	10.77	9.09	9.52	7.78	8.00	10.10	10.90	11.56
17	12.59	11.15	11.70	10.28	10.46	9.17	9.54	7.75	8.05	10.15	10.93	11.95
18	12.54	11.34	11.44	9.91	10.62	9.16	9.37	7.90	8.04	10.16	10.99	12.07
19	12.50	11.39	11.15	10.57	10.36	9.04	9.34	7.94	8.14	10.11	11.11	11.98
20	12.40	11.33	11.65	10.53	10.49	9.06	9.25	7.95	8.35	10.10	11.17	11.86
21	12.39	11.37	11.52	10.55	10.48	9.11	9.32	8.13	8.50	10.06	11.20	11.70
22	12.50	11.38	11.53	10.40	10.31	9.14	9.15	8.37	8.58	10.06	11.20	11.80
23	12.58	11.32	11.51	10.01	10.05	9.22	9.22	8.42	8.70	10.01	11.25	11.85
24	12.73	11.62	11.47	10.08	10.62	9.06	9.02	8.62	8.79	9.96	11.27	11.87
25	12.69	11.42	11.37	10.09	10.46	9.14	8.44	8.78	8.85	9.96	11.21	11.87
26	12.40	11.16	11.32	9.64	10.30	9.49	8.47	8.75	8.89	10.10	11.19	11.68
27	12.03	10.84	11.41	10.09	10.22	9.32	8.81	8.74	8.89	10.16	11.26	11.69
28	12.28	11.49	11.61	10.09	10.50	8.99	8.65	8.69	8.90	10.14	11.40	11.77
29	12.54	11.53	11.59	9.84	10.48	9.10	8.50	8.81	8.94	10.09	11.43	11.76
30	12.41	11.39	11.37	9.87	---	9.02	8.39	8.98	8.97	10.06	11.44	11.76
31	12.26	---	11.01	10.07	---	8.86	---	9.03	---	10.09	11.44	---
MAX	12.73	12.46	12.02	11.38	10.77	10.38	9.54	9.03	9.02	10.16	11.44	12.07
MIN	11.92	10.84	11.01	9.64	10.03	8.86	8.39	7.75	7.90	8.95	10.07	11.44

WTR YR 1996 HIGH 7.75 LOW 12.73





## GROUND-WATER LEVELS

225

## GRAYSON COUNTY

372822086165801. Map number 8.

LOCATION.--Lat 37°28'22", long 86°16'58", Hydrologic Unit 05110004, County Code 085, Leitchfield quadrangle, at the end of a city park road, 500 ft north of a dam and lake, 1,000 ft northeast of the old city water treatment plant, 0.8 mi southeast of Grayson County Courthouse, in Leitchfield. Owner: City of Leitchfield.

AQUIFER.--Hardinsburg Sandstone of Late Mississippian age. Aquifer code: 332HDBG.

WELL CHARACTERISTICS.--Drilled unused artesian and water-table well, diameter 7 in., depth 384 ft, length casing unknown.

INSTRUMENTATION.--Six-week interval measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum (from topographic map) is 660 ft. Measuring point: Top of pipe flange 5.12 ft above land-surface datum.

PERIOD OF RECORD.--December 1979 to September 1983 and October 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 74.14 ft below land-surface datum, Mar. 17, 1994; lowest measured, 84.65 ft below land-surface datum, June 6, 1990.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 1, 1995	75.03	Feb. 23, 1996	75.35
Jan. 29, 1996	74.27	Mar. 25, 1996	75.68

## GROUND-WATER LEVELS

## HARDIN COUNTY

374035085525401. Local number OW-1-82, map number 9.

LOCATION.--Lat 37°40'35", long 85°52'54", Hydrologic Unit 05110001, County Code 093, Cecilia quadrangle, 0.30 mi west of Elizabethtown Water Plant, 0.20 mi west on gravel road to sewage lagoon parallel to RR tracks, 100 ft south of RR tracks, 75 ft east of electric power tower, 10 ft north of gravel road. Owner: City of Elizabethtown.

AQUIFER.--St. Louis Limestone of Late Mississippian age. Aquifer Code: 333STLS.

WELL CHARACTERISTICS.--Drilled unused artesian and water table well, diameter 6 in., depth 120 ft, with 14 ft of 8 in. surface casing.

INSTRUMENTATION.--Graphical recorder--continuous.

DATUM.--Elevation of land-surface datum is 692.25 ft above sea level. Measuring point: Floor of shelter, 1.4 ft above land-surface datum.

REMARKS.--Water levels affected by pumping from nearby wells and proximity to RR tracks.

PERIOD OF RECORD.--September 1982 to current year.

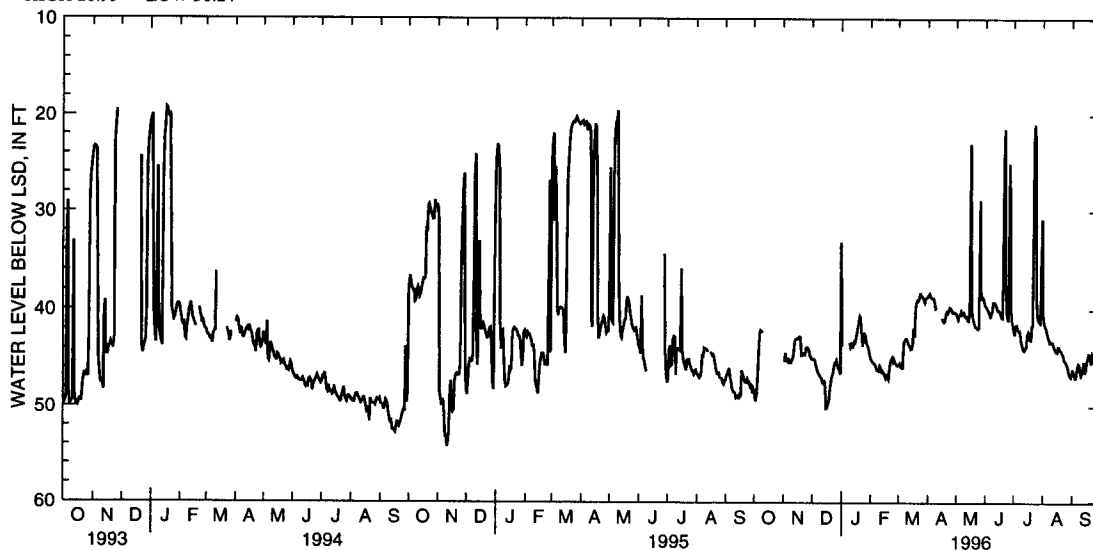
EXTREMES FOR PERIOD OF RECORD.--Highest water level observed, 8.99 ft below land surface datum, May 3, 1983; lowest, 78.77 ft below land-surface datum, July 14, 1988.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

## DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49.04	45.30	45.05	43.66	45.04	45.62	38.66	40.25	39.55	42.11	40.47	46.03
2	49.38	44.39	44.99	---	45.29	45.46	38.43	40.62	39.66	42.48	41.26	46.40
3	48.72	45.05	45.09	---	45.32	45.80	38.27	40.88	39.89	41.51	41.65	46.70
4	46.90	45.20	45.55	---	45.45	45.83	38.55	40.47	40.12	41.50	41.84	47.03
5	44.66	44.85	45.94	---	45.56	45.90	38.75	40.43	40.31	41.89	42.29	46.62
6	42.35	45.44	46.26	---	45.80	44.54	38.79	40.11	40.72	42.08	42.70	45.81
7	42.05	45.19	46.52	---	46.14	43.19	38.76	40.46	40.24	42.06	42.94	45.46
8	42.20	45.33	46.64	---	46.16	43.00	39.19	40.42	40.07	42.64	43.30	45.57
9	42.28	45.07	46.89	43.30	46.22	42.87	39.78	40.24	39.18	43.24	43.29	46.37
10	---	44.79	46.94	43.77	45.68	42.91	39.70	40.54	39.17	43.68	43.20	46.65
11	---	43.91	47.48	43.46	45.90	43.24	---	40.68	39.26	44.04	43.25	46.35
12	---	43.14	47.57	43.84	46.32	43.49	---	40.61	39.46	44.10	43.62	45.88
13	---	42.97	47.17	43.41	46.22	43.71	---	40.98	39.87	43.87	43.95	45.27
14	---	42.94	47.74	43.18	46.39	43.95	---	41.04	40.04	43.81	44.09	46.42
15	---	42.87	50.24	43.28	46.72	43.91	---	40.16	39.99	42.45	44.26	46.04
16	---	42.88	49.99	42.78	46.94	43.27	40.80	22.96	40.14	42.23	44.29	45.24
17	---	42.70	49.69	42.31	46.49	41.80	41.08	38.20	40.48	42.89	43.63	44.87
18	---	42.76	49.30	41.70	46.89	42.66	41.18	40.50	40.74	42.87	43.95	44.46
19	---	44.73	48.24	41.11	47.10	39.83	41.07	40.90	40.77	43.10	44.05	44.52
20	---	44.41	47.42	40.60	46.08	39.20	40.36	41.35	26.59	41.61	44.17	45.24
21	---	44.44	46.87	40.78	45.36	38.96	40.15	41.63	21.41	41.51	44.38	45.43
22	---	44.60	46.60	42.41	45.04	39.03	40.29	41.68	37.56	22.97	44.61	44.39
23	---	44.59	45.99	43.66	44.87	38.72	39.99	41.80	40.07	20.93	45.11	44.55
24	---	43.91	45.38	42.47	45.22	38.19	39.69	41.86	40.75	23.14	45.23	44.50
25	---	43.78	45.35	42.34	45.01	38.54	39.72	41.72	41.09	39.09	45.34	45.57
26	---	43.85	45.12	42.55	45.28	38.59	39.94	28.83	25.01	40.70	45.56	45.21
27	---	44.09	45.68	43.39	45.47	38.71	40.20	38.88	27.81	40.99	45.91	44.39
28	---	44.68	45.97	43.57	45.63	38.97	40.13	38.59	40.01	41.18	46.50	42.00
29	---	44.79	46.11	43.96	45.70	39.20	40.22	38.62	41.05	41.28	46.73	41.16
30	---	45.02	46.54	44.39	---	38.74	40.27	38.84	41.61	35.37	46.85	41.06
31	---	---	33.20	44.88	---	38.68	---	39.37	---	30.78	46.54	---
MAX	---	45.44	50.24	---	47.10	45.90	---	41.86	41.61	44.10	46.85	47.03
MIN	---	42.70	33.20	---	44.87	38.19	---	22.96	21.41	20.93	40.47	41.06

WTR YR 1996 HIGH 20.93 LOW 50.24



## GROUND-WATER LEVELS

227

## HARDIN COUNTY

374046085523501. Local number OW-1-81, map number 9.

LOCATION.--Lat 37°40'46", long 85°52'35", Hydrologic Unit 05110001, County Code 093, Cecilia quadrangle, at Elizabethtown Water Plant, 300 ft south of blue water tank, 25 ft east of engineer's office, next to gravel driveway. Owner: City of Elizabethtown.

AQUIFER.--St. Louis Limestone of Late Mississippian age. Aquifer Code: 333STLS.

WELL CHARACTERISTICS.--Drilled unused artesian and water table well, diameter 6 in., depth 100 ft, with 6 ft of 6 in. surface casing.

INSTRUMENTATION.--Graphical recorder--continuous.

DATUM.--Elevation of land-surface datum is 685.89 ft above sea level. Measuring point: Floor of shelter, 1.9 ft above land-surface datum.

REMARKS.--Water levels affected by pumping from nearby wells.

PERIOD OF RECORD.--September 1982 to current year.

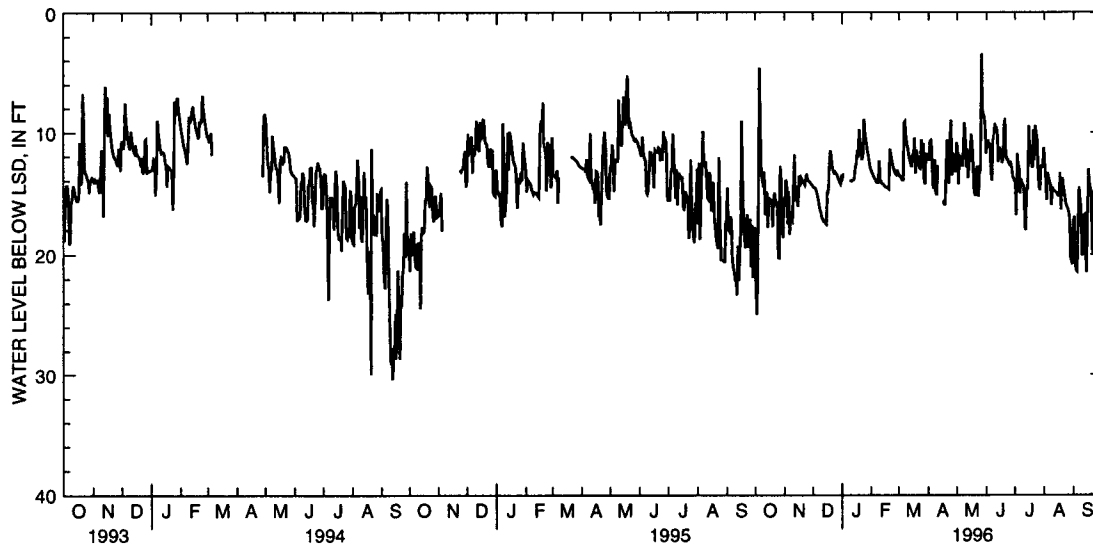
EXTREMES FOR PERIOD OF RECORD.--Highest water level observed, 3.41 ft below land surface datum, Feb. 21, 1993; lowest, 49.47 ft below land-surface datum, Oct. 8, 1987.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

## DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22.61	15.82	14.52	13.77	13.27	13.61	12.37	11.34	10.74	14.16	12.39	16.95
2	24.89	13.94	14.56	13.40	13.49	13.61	10.74	14.29	10.70	16.82	13.83	20.69
3	21.72	14.16	14.59	---	13.66	13.80	10.65	11.98	11.20	11.80	15.58	21.29
4	15.08	17.52	14.76	---	13.82	13.95	11.44	12.10	10.91	12.76	13.33	21.39
5	4.64	14.88	15.04	---	13.88	13.96	14.32	12.24	13.35	12.93	13.73	17.40
6	9.85	18.34	15.39	---	14.12	9.25	14.62	12.85	14.00	15.02	14.12	14.54
7	13.39	16.59	15.87	---	14.14	9.11	12.31	10.89	10.70	13.85	14.34	15.37
8	13.84	17.13	16.33	---	14.18	10.21	14.96	9.20	10.28	14.25	15.97	16.15
9	14.51	17.28	16.56	14.00	12.38	10.96	15.20	10.09	9.26	14.30	14.54	20.01
10	13.26	14.54	16.99	14.02	13.98	11.37	12.75	12.88	9.60	14.46	14.77	20.02
11	16.79	11.87	17.14	14.04	14.04	11.90	---	11.38	9.60	17.77	14.82	16.86
12	15.98	15.63	17.33	13.96	14.29	12.31	---	13.79	10.15	18.03	14.86	16.79
13	14.90	14.57	17.32	13.96	14.28	12.65	---	12.12	12.44	14.70	14.95	19.69
14	17.80	15.64	17.44	13.75	14.40	12.87	---	12.24	11.23	14.66	15.08	21.45
15	15.43	16.10	17.53	12.91	14.50	11.87	---	10.14	11.50	9.45	15.21	17.23
16	15.47	13.61	14.88	12.57	14.52	11.87	15.63	10.71	11.76	10.86	15.19	13.03
17	15.60	14.45	14.89	11.54	14.57	10.46	15.94	12.25	12.56	11.68	13.35	14.11
18	15.68	13.77	12.87	12.08	14.59	13.37	15.95	12.11	12.65	16.38	14.63	14.63
19	17.72	13.96	11.50	9.78	14.67	11.48	13.04	15.07	9.37	12.95	13.76	15.55
20	15.52	14.09	12.00	10.90	11.40	12.05	10.61	15.23	8.84	9.80	13.95	19.56
21	15.01	14.20	12.80	11.59	11.87	12.53	13.49	12.89	11.79	12.35	14.65	19.89
22	15.72	14.35	13.18	12.30	12.39	12.98	14.23	12.88	12.26	9.46	15.16	14.77
23	15.96	13.86	13.35	11.77	12.73	13.04	10.36	15.32	12.31	10.04	15.82	15.38
24	15.86	13.44	13.26	8.91	13.07	10.60	8.99	13.27	12.57	10.46	16.07	17.27
25	20.28	13.90	13.39	10.10	13.23	12.74	13.55	13.10	12.71	13.54	16.26	19.45
26	20.29	14.00	13.48	10.63	13.43	10.92	13.09	3.45	12.58	14.49	16.48	16.55
27	12.82	14.12	13.71	11.26	13.50	13.86	11.90	8.34	12.92	14.79	17.00	11.94
28	13.96	14.19	13.93	11.73	13.14	14.29	12.03	8.49	13.64	12.83	20.19	9.81
29	16.91	14.29	14.12	12.25	13.42	11.74	13.29	8.73	13.83	12.87	20.53	11.57
30	18.61	14.40	14.27	12.75	---	12.05	10.83	9.51	14.01	12.76	20.83	12.53
31	15.70	---	13.54	13.10	---	12.11	---	11.76	---	11.25	17.53	---
MAX	24.89	18.34	17.53	---	14.67	14.29	---	15.32	14.01	18.03	20.83	21.45
MIN	4.64	11.87	11.50	---	11.40	9.11	---	3.45	8.84	9.45	12.39	9.81

WTR YR 1996 HIGH 3.45 LOW 24.89



## GROUND-WATER LEVELS

## HENDERSON COUNTY

374441087421001. Map number 10.

LOCATION.--Lat 37°44'41", long 87°42'10", Hydrologic Unit 05140202, County Code 101, Poole quadrangle, in a vacant lot, 30 ft north of a gravel street, 100 ft south of U.S. Highway 60, near the center of Corydon. Owner: Town of Corydon.

AQUIFER.--Sturgis Formation of Late Pennsylvanian and early Permian age. Aquifer code: 321STRG. (Previously published as Lisman Formation of Late Pennsylvanian age. Aquifer Code: 321LSMN).

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 157 ft.

INSTRUMENTATION.--Six-week interval measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum (from topographic map) is about 435 ft. Measuring point: Floor of recorder shelter, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--March 1952 to August 1983 and June 1988 to current year. March 1952 to September 1976 published in hydrograph form and on file at district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 60.21 ft below land-surface datum, July 11, 1995; lowest measured, 119.83 ft below land-surface datum, Nov. 24, 1966.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 12, 1995	60.86	Jan. 12, 1996	61.49
Dec. 12, 1995	61.56	Mar. 19, 1996	61.09

## JEFFERSON COUNTY

380122085545001. Local number 80-1, map number 1.

LOCATION.--Lat 38°01'22", long 85°54'50", Hydrologic Unit 05140101, County Code 111, Kosmosdale quadrangle, 12 ft west of an old private driveway, 40 ft north of Kentucky Highway 44, 0.25 mi southeast of junction of U.S. Highway 31W and Kentucky Highway 44, 0.9 mi southwest of Kosmosdale. Owner: Jefferson County.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 100 ft, screened 93.0-95.0 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 431.64 ft above sea level. Measuring point: Top of casing, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--May 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.32 ft below land-surface datum, May 22, 1996; lowest measured, 42.66 ft below land-surface datum, Oct. 19, 1988.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 27, 1995	41.08	May 22, 1996	23.32

380252085530601. Local number 79-3, map number 2.

LOCATION.--Lat 38°02'52", long 85°53'06", Hydrologic Unit 05140101, County Code 111, Kosmosdale quadrangle, on the south side of the first building inside the gate at Old Boone Distillery, at the south end of Bohannon Avenue, 0.9 mi south of Pendleton Road, 1.5 mi northeast of Kosmosdale. Owner: Ronald Clark.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled used water-table well, diameter 12 in., depth 90 ft cased and screened.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 440.75 ft above sea level. Measuring point: Top of metal well cover, 0.70 ft above land-surface datum.

REMARKS.--Water levels affected by pumping.

PERIOD OF RECORD.--March 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 32.08 ft below land-surface datum, May 8, 1991; lowest measured, 40.75 ft below land-surface datum, Oct. 18, 1988.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 27, 1995	35.51	May 22, 1996	32.81

## GROUND-WATER LEVELS

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## JEFFERSON COUNTY

380341085534501. Local number 83-1, map number 3.

LOCATION.--Lat 38°03'41", long 85°53'45", Hydrologic Unit 05140101, County Code 111, Kosmosdale quadrangle, across street from 135111 Wilken Way, at east edge of Watson Lane Elementary School playground, 8 ft west of blacktop pavement, 9 ft east of a powerline pole, 2 mi north of Kosmosdale, in Meadow Lawn subdivision. Owner: Jefferson County.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 64 ft, screened 62-64 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 441.25 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--March 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 35.13 ft below land-surface datum, May 8, 1991; lowest measured, 44.68 ft below land-surface datum, Oct. 18, 1988.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 27, 1995	42.40	May 20, 1996	36.97

380423085541501. Local number, Genewien number 2, map number 4.

LOCATION.--Lat 38°04'23", long 85°54'15", Hydrologic Unit 05140101, County Code 111, Kosmosdale quadrangle, 31 ft south of Louisville Gas & Electric power line pole number 47, 33 ft west of center line of Cane Run Road, 0.7 mi south of Orell Road, 1.5 mi north of Louisville Gas & Electric Mill Creek Generating Plant, 2.5 mi north of Kosmosdale. Owner: Jefferson County.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 65 ft, screened 63-65 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 431.49 ft above sea level. Measuring point: Top of casing, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--April 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.85 ft below land-surface datum, May 22, 1996; lowest measured, 44.32 ft below land-surface datum, Oct. 19, 1988.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 27, 1995	43.03	May 22, 1996	10.85

380458085523201. Local number 86-4, map number 5.

LOCATION.--Lat 38°04'58", long 85°52'32", Hydrologic Unit 05140101, County Code 111, Kosmosdale quadrangle, southeast of the first 90° curve on Deering Road off of Dixie Highway, 26 north of ash tree, on east bank of Madora Br. Owner: Metropolitan Sewer District.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in., depth 45.4 ft, screened 43-45 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 437.71 ft above sea level. Measuring point: Top of casing at ground level.

PERIOD OF RECORD.--October 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.80 ft below land-surface datum, May 8, 1991; lowest measured, 31.60 ft below land-surface datum, Oct. 18, 1988.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 27, 1995	29.15	May 22, 1996	27.90

## GROUND-WATER LEVELS

## JEFFERSON COUNTY

380517085535201. Local number 77-1, map number 6.

LOCATION.--Lat 38° 05' 17", long 85° 53' 52", Hydrologic Unit 05140101, County Code 111, Kosmosdale quadrangle, inside fenced area at southwest Jefferson County sewage pumping station, 125 ft east of the center line of Lower River Road, 0.4 mi north of Orell Road, 0.2 mi east of Ohio River, and 1.5 mi southwest of Valley Station. Owner: Metropolitan Sewer District.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.25 in., depth 83.2 ft, screened 80.2-83.2 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 444.96 ft above sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.

PERIOD OF RECORD.--October 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 33.62 ft below land-surface datum, May 22, 1996; lowest measured, 57.75 ft below land-surface datum, Nov. 10, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 27, 1996	54.63	May 22, 1996	33.62

380532085515301. Local number 51-5-2, (76-1), map number 7.

LOCATION.--Lat 38° 05' 32", long 85° 51' 53", Hydrologic Unit 05140102, County Code 111, Valley Station quadrangle, in back yard at 11212 Deering Road in Valley Station. Owner: Jim Robinson.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 88 ft, screened 85-88 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 458.24 ft above sea level. Measuring point: Top of casing, 0.30 ft above land-surface datum.

REMARKS.--Water-level elevations previously published referenced to sea level.

PERIOD OF RECORD.--May 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 39.03 ft below land-surface datum, June 24, 1980; lowest measured, 46.73 ft above land-surface datum, Oct. 31, 1978.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 27, 1995	43.70	May 22, 1996	43.50

## GROUND-WATER LEVELS

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## JEFFERSON COUNTY

380606085531301. Local number 53-6-1, (RR-46), map number 8.

LOCATION.--Lat 38°06'06", long 85°53'13", Hydrologic Unit 05140101, County Code 111, Kosmosdale quadrangle, at entrance to Sun Valley Park, 20 ft south of Bethany Lane, 0.2 mi east of Lower River Road, in Valley Station. Owner: Jefferson County.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 92 ft, screened 88-90 ft.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 433.89 ft above sea level. Measuring point: Floor of recorder shelter, 2.93 ft above land-surface datum.

PERIOD OF RECORD.--July 1945 to current year.

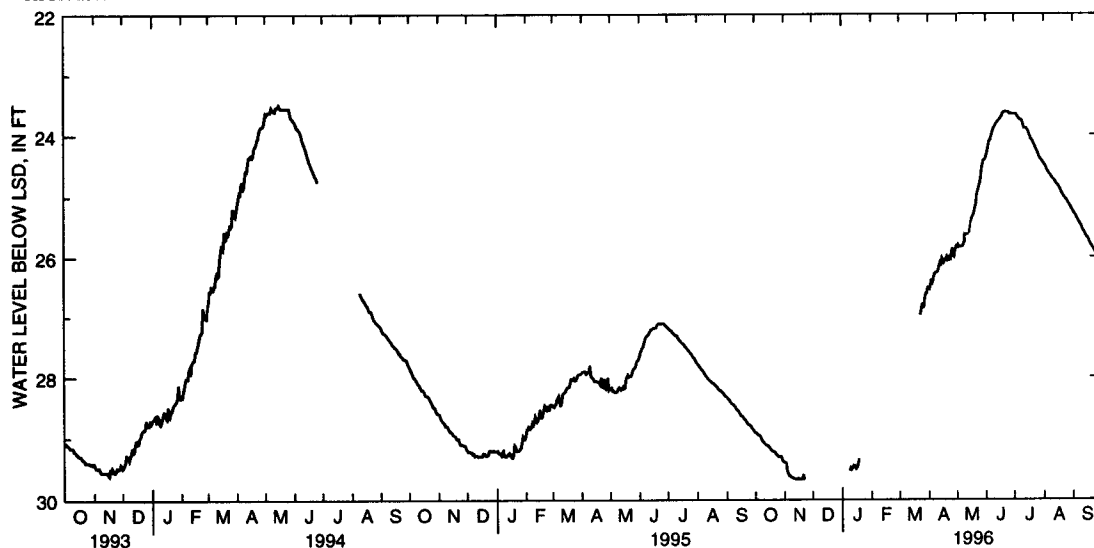
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 21.14 ft below land-surface datum, May 19, 1975; lowest, 40.87 ft below land-surface datum, Feb. 19, 1961.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

## DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28.92	29.40	---	---	---	---	26.51	25.84	24.33	23.65	24.48	25.26
2	28.93	29.41	---	---	---	---	26.53	25.80	24.26	23.65	24.50	25.29
3	28.94	29.55	---	---	---	---	26.45	25.84	24.18	23.66	24.53	25.31
4	28.96	29.58	---	---	---	---	26.37	25.83	24.10	23.70	24.57	25.34
5	28.96	29.62	---	---	---	---	26.42	25.83	24.09	23.72	24.60	25.37
6	28.99	29.62	---	---	---	---	26.36	25.83	24.03	23.74	24.62	25.40
7	29.03	29.64	---	---	---	---	26.29	25.83	23.97	23.75	24.64	25.43
8	29.06	29.65	---	29.54	---	---	26.27	25.79	23.93	23.75	24.66	25.46
9	29.07	29.65	---	29.49	---	---	26.26	25.75	23.88	23.78	24.69	25.48
10	29.09	29.66	---	29.52	---	---	26.26	25.72	23.86	23.84	24.71	25.52
11	29.10	29.67	---	29.49	---	---	26.23	25.63	23.83	23.89	24.72	25.56
12	29.12	29.67	---	29.46	---	---	26.15	25.63	23.80	23.89	24.74	25.58
13	29.12	29.67	---	29.48	---	---	26.09	25.60	23.78	23.89	24.77	25.61
14	29.13	29.67	---	29.47	---	---	26.12	25.59	23.76	23.91	24.80	25.65
15	29.15	29.66	---	29.51	---	---	26.02	25.43	23.74	23.94	24.81	25.67
16	29.17	29.67	---	29.48	---	---	26.05	25.39	23.72	23.99	24.83	25.69
17	29.20	29.67	---	29.43	---	---	26.10	25.34	23.70	24.03	24.86	25.72
18	29.21	29.67	---	29.34	---	---	26.07	25.32	23.65	24.07	24.89	25.77
19	29.22	29.67	---	---	---	---	26.04	25.28	23.63	24.08	24.93	25.80
20	29.22	29.60	---	---	---	---	26.00	25.19	23.62	24.11	24.96	25.82
21	29.23	29.68	---	---	---	---	26.06	25.13	23.62	24.15	24.98	25.84
22	29.26	---	---	---	---	---	26.05	24.96	23.62	24.17	25.01	25.86
23	29.28	---	---	---	---	26.97	25.98	24.91	23.62	24.22	25.03	25.89
24	29.29	---	---	---	---	26.89	26.06	24.84	23.62	24.25	25.05	25.92
25	29.31	---	---	---	---	26.78	25.91	24.79	23.63	24.29	25.07	25.95
26	29.31	---	---	---	---	26.84	25.86	24.69	23.65	24.33	25.10	25.96
27	29.30	---	---	---	---	26.84	25.98	24.54	23.65	24.37	25.12	25.97
28	29.31	---	---	---	---	26.70	26.00	24.47	23.65	24.39	25.15	25.99
29	29.37	---	---	---	---	26.61	25.88	24.42	23.65	24.41	25.18	26.03
30	29.39	---	---	---	---	26.61	25.83	24.41	23.65	24.43	25.21	26.06
31	29.40	---	---	---	---	26.51	---	24.39	---	24.45	25.23	---
MAX	29.40	---	---	---	---	---	26.53	25.84	24.33	24.45	25.23	26.06
MIN	28.92	---	---	---	---	---	25.83	24.39	23.62	23.65	24.48	25.26

WTR YR 1996 HIGH 23.62 LOW 29.68



## GROUND-WATER LEVELS

## JEFFERSON COUNTY

380619085512301. Local number 86-3, map number 9.

LOCATION.--Lat 38° 06' 19", long 85° 51' 23", Hydrologic Unit 05140101, County Code 111, Valley Station quadrangle, northwest side of Valley Station and Grafton Hall Roads, 21.0 ft northwest of north corner of drain, and 17.4 ft northeast of telephone pole. Owner: Metropolitan Sewer District.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in., depth 55 ft, screened 52-55 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 455.03 ft above sea level. Measuring point: Top of casing, 0.20 ft above land-surface datum.

PERIOD OF RECORD.--October 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.10 ft below land-surface datum, Nov. 1, 1991; lowest measured, 38.90 ft below land-surface datum, Oct. 18, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 27, 1995	36.61	May 22, 1996	36.60

380709085531101. Local number C-5-m, map number 10.

LOCATION.--Lat 38° 07' 09", long 85° 53' 11", Hydrologic Unit 05140101, County Code 111, Kosmosdale quadrangle, 3 ft west of a gravel field road, 20 ft west of west bank of Mill Creek, 550 ft northwest of Johnstontown Road, in Louisville. Owner: Metropolitan Sewer District.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 51.5 ft, screened 48.5-51.5 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 427.1 ft above sea level. Measuring point: Top edge of metal well cover, at land-surface datum.

REMARKS.--EPA, Mill Creek EIS test well.

PERIOD OF RECORD.--October 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.55 ft below land-surface datum, May 7, 1991; lowest measured, 19.95 ft below land-surface datum, Oct. 19, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 27, 1995	18.40	May 22, 1996	15.95

380716085521801. Local number 52-7-2, (RR-47), map number 11.

LOCATION.--Lat 38° 07' 16", long 85° 52' 18", Hydrologic Unit 05140101, County Code 111, Valley Station quadrangle, at 5510 Johnstontown Road, 0.9 mi west of junction of Dixie Highway and Johnstontown Road, on the south shoulder of Johnstontown Road, in Valley Station. Owner: Jefferson County.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 103 ft, screened 101.5-103.0 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 449.91 ft above sea level. Measuring point: Top of plug, 2.50 ft above land-surface datum.

PERIOD OF RECORD.--July 1945 to current year. July 1945 to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.56 ft below land-surface datum, Apr. 16, 1980; lowest measured, 42.20 ft below land-surface datum, Mar. 27, 1961.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 27, 1995	33.91	May 22, 1996	33.32



## GROUND-WATER LEVELS

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## JEFFERSON COUNTY

380816085520701. Local number 52-8-1, map number 12.

LOCATION.--Lat 38°08'16", long 85°52'07", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, between the house and a tool shed at a vegetable farm, 0.5 mi south of Greenwood Road, 0.1 mi west of Canna Road, in Louisville. Owner: Anna Dohn.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Dug unused water-table well, diameter 30 in., depth 70 ft, shored.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 457.47 ft above sea level. Measuring point: Top of wooden well cover, 0.62 ft above land-surface datum.

REMARKS.--Water level affected by pumping from nearby well.

PERIOD OF RECORD.--November 1943 to current year. November 1943 to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.13 ft below land-surface datum, Oct. 27, 1980; lowest measured, 51.20 ft below land-surface datum, Feb. 10, 1945.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 26, 1995	40.01	May 22, 1996	39.84

380827085503001. Local number 86-5, map number 13.

LOCATION.--Lat 38°08'27", long 85°50'30", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, South of Dixie Highway and Greenwood Road, west on Seibel Court, 17.9 ft east of south corner of culvert wall behind Little Reds Mister Fix It. Owner: Metropolitan Sewer District.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in., depth 44 ft, screened 42-44 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 453.75 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--October 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.44 ft below land-surface datum, May 8, 1991; lowest measured, 31.70 ft below land-surface datum, Oct. 18, 1988.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 26, 1995	30.28	May 22, 1996	30.19

380843085530701. Local number B-3-d, map number 14.

LOCATION.--Lat 38°08'43", long 85°53'07", Hydrologic Unit 05140101, County Code 111, Lanesville quadrangle, in a field 60 ft east of southeast corner of church yard fence, 200 ft southeast of Greenwood Road, 300 ft west of Mill Creek, in Louisville. Owner: Metropolitan Sewer District.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2 in., depth unknown, screened interval unknown.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 424.9 ft above sea level. Measuring point: Top edge of metal well cover, at land-surface datum.

REMARKS.--EPA, Mill Creek EIS test well.

PERIOD OF RECORD.--October 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.78 ft below land-surface datum, Oct. 29, 1980; lowest measured, 18.69 ft below land-surface datum, Oct. 19, 1988.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 26, 1995	18.12	May 22, 1996	16.57

## GROUND-WATER LEVELS

## JEFFERSON COUNTY

380850085534701. Local number 78-2, map number 15.

LOCATION.--Lat 38°08'50", long 85°53'47", Hydrologic Unit 05140101, County Code 111, Lanesville quadrangle, at the southwest corner of Cane Run Road and Greenwood Road, 25 ft west of Cane Run Road, 44 ft south of Greenwood Road, and 0.4 mi east of Ohio River, in Louisville. Owner: Jefferson County.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 86.6 ft, screened 84.6-86.6 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 450.07 ft above sea level. Measuring point: Top of casing at land-surface datum.

PERIOD OF RECORD.--May 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 39.68 ft below land-surface datum, May 2, 1979; lowest measured, 52.17 ft below land-surface datum, Oct. 26, 1995.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 26, 1995	52.17	May 22, 1996	44.28

380940085514001. Local number 81-1, map number 16.

LOCATION.--Lat 38°09'40", long 85°51'40", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, 7 ft west of a fence corner, 10 ft east of center of a gravel road, 20 ft north of the west bank of Black Pond Creek, 40 ft north of northeast corner of concrete bridge, 400 ft south of Lower Hunters Trace, 1.5 mi west of Dixie Highway, in Louisville. Owner: Metropolitan Sewer District.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 70.0 ft, screened 63.0-65.0 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS annual personnel.

DATUM.--Elevation of land-surface datum is 444.58 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--April 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.57 ft below land-surface datum, Apr. 26, 1985, May 7, 1991; lowest measured, 26.40 ft below land-surface datum, Oct. 19, 1988.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 26, 1995	25.19	May 22, 1996	24.60

380955085531801. Local number 83-2, map number 17.

LOCATION.--Lat 38°09'55", long 85°53'18", Hydrologic Unit 05140101, County Code 111, Lanesville quadrangle, 19 ft northwest of a fire plug, 22 ft south of concrete curb on Riverport Drive, 100 ft southeast of a concrete bridge and drainage ditch, 3 mi northwest of Pleasure Ridge Park. Owner: Jefferson County.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 97 ft, screened 95-97 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 441.8 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--July 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 31.92 ft below land-surface datum, May 7, 1991; lowest measured, 40.04 ft below land-surface datum, Oct. 27, 1988.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 26, 1995	38.80	May 22, 1996	34.35

## GROUND-WATER LEVELS

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## JEFFERSON COUNTY

381034085502601. Local number 50-10-2 (RR-30), map number 18.

LOCATION.--Lat 38°10'34", long 85°50'26", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, on south edge of Rockford Lane near west bank of Mill Creek, in Shively. Owner: Jefferson County.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 94 ft, screened 90-92 ft.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 442.96 ft above sea level. Measuring point: Floor of recorder shelter, 4.31 ft above land-surface datum.

REMARKS.--Water-quality sample May 6, 1945.

PERIOD OF RECORD.--April 1945 to current year.

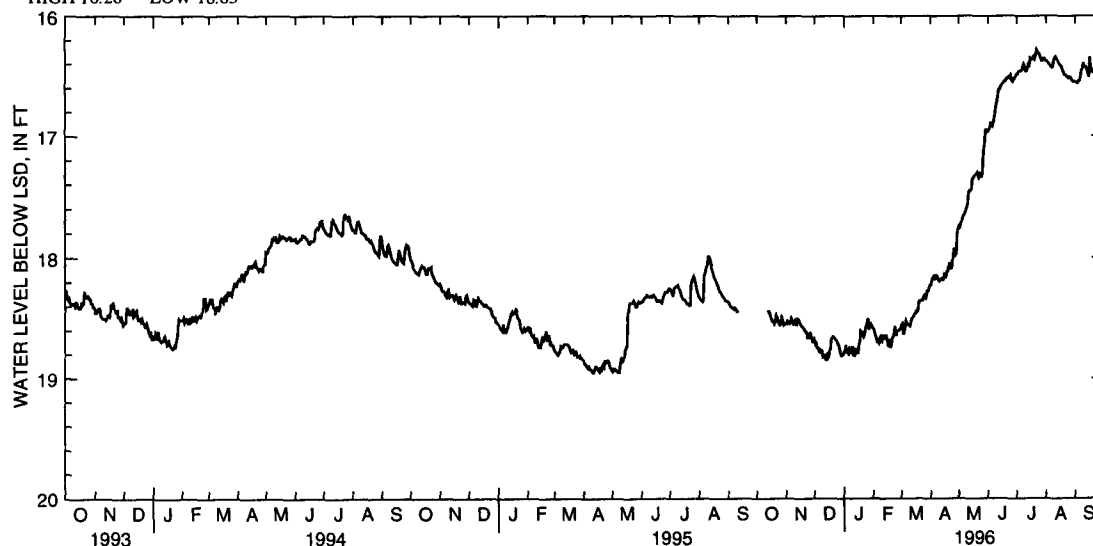
EXTREMES FOR PERIOD OF RECORD.--Highest water level observed, 15.38 ft below land-surface datum, Apr. 14, 1980; lowest 31.55 ft below land-surface datum, Apr. 2, 1957.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

## DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	18.54	18.71	18.78	18.59	18.55	18.22	17.74	16.96	16.49	16.37	16.55
2	---	18.52	18.70	18.72	18.63	18.54	18.18	17.75	16.93	16.47	16.38	16.56
3	---	18.53	18.74	18.77	18.66	18.63	18.16	17.72	16.89	16.46	16.39	16.56
4	---	18.54	18.74	18.78	18.69	18.60	18.15	17.68	16.89	16.46	16.40	16.54
5	---	18.53	18.77	18.79	18.68	18.56	18.18	17.66	16.91	16.46	16.41	16.54
6	---	18.50	18.76	18.75	18.70	18.52	18.14	17.65	16.88	16.45	16.42	16.50
7	---	18.52	18.79	18.77	18.66	18.54	18.14	17.63	16.83	16.42	16.43	16.45
8	---	18.54	18.76	18.78	18.65	18.55	18.15	17.61	16.79	16.40	16.42	16.44
9	---	18.52	18.82	18.73	18.70	18.55	18.18	17.59	16.74	16.42	16.36	16.39
10	---	18.51	18.82	18.81	18.64	18.56	18.19	17.56	16.71	16.46	16.35	16.41
11	---	18.56	18.81	18.74	18.64	18.53	18.18	17.47	16.66	16.46	16.34	16.42
12	18.43	18.51	18.83	18.79	18.67	18.50	18.17	17.45	16.61	16.43	16.35	16.42
13	18.44	18.50	18.81	18.77	18.64	18.49	18.18	17.45	16.61	16.40	16.37	16.45
14	18.45	18.51	18.85	18.75	18.64	18.48	18.18	17.44	16.59	16.41	16.39	16.48
15	18.47	18.53	18.82	18.79	18.69	18.46	18.14	17.35	16.57	16.35	16.40	16.51
16	18.50	18.55	18.77	18.71	18.73	18.44	18.16	17.35	16.56	16.36	16.41	16.34
17	18.52	18.56	18.75	18.69	18.67	18.45	18.16	17.33	16.55	16.36	16.42	16.42
18	18.52	18.57	18.67	18.60	18.74	18.43	18.11	17.32	16.54	16.34	16.45	16.46
19	18.54	18.58	18.66	18.61	18.72	18.36	18.11	17.31	16.54	16.33	16.47	16.47
20	18.52	18.59	18.65	18.62	18.66	18.35	18.04	17.30	16.52	16.35	16.49	16.47
21	18.47	18.61	18.66	18.65	18.65	18.35	18.07	17.32	16.52	16.32	16.49	16.44
22	18.49	18.61	18.67	18.63	18.62	18.35	18.05	17.34	16.51	16.28	16.50	16.42
23	18.52	18.66	18.68	18.58	18.56	18.35	18.09	17.31	16.52	16.30	16.51	16.45
24	18.54	18.66	18.69	18.56	18.64	18.32	18.00	17.32	16.50	16.31	16.52	16.46
25	18.55	18.64	18.72	18.53	18.61	18.31	17.93	17.34	16.54	16.32	16.51	16.51
26	18.53	18.61	18.72	18.50	18.60	18.34	17.93	17.19	16.55	16.35	16.51	16.48
27	18.49	18.65	18.78	18.59	18.60	18.31	17.98	17.10	16.53	16.37	16.52	16.36
28	18.51	18.69	18.81	18.53	18.59	18.27	17.97	17.05	16.52	16.37	16.54	16.29
29	18.55	18.69	18.81	18.55	18.58	18.27	17.80	16.94	16.51	16.35	16.55	16.35
30	18.54	18.67	18.80	18.56	---	18.24	17.76	16.97	16.49	16.35	16.55	16.38
31	18.54	---	18.78	18.58	---	18.22	---	16.96	---	16.37	16.55	---
MAX	---	18.69	18.85	18.81	18.74	18.63	18.22	17.75	16.96	16.49	16.55	16.56
MIN	---	18.50	18.65	18.50	18.56	18.22	17.76	16.94	16.49	16.28	16.34	16.29

WTR YR 1996 HIGH 16.28 LOW 18.85



## GROUND-WATER LEVELS

## JEFFERSON COUNTY

381050085511001. Local number 51-10-1, (RR-29), map number 19.

LOCATION.--Lat 38°10'50", long 85°51'10", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, 50 ft south of Rockford Lane, at the edge of an apartment house parking area, 0.3 mi southeast of the junction of Cane Run Road and Rockford Lane. Owner: Jefferson County.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 64 ft, screened 62.5-64.0 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 444.18 ft above sea level. Measuring point: Top of plug, 3.60 ft above land-surface datum.

REMARKS.--Water-quality sample Apr. 3, 1945.

PERIOD OF RECORD.--April 1945 to current year. April 1945 to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.80 ft below land-surface datum, Apr. 16, 1980; lowest measured, 37.61 ft below land-surface datum, Mar. 21, 1957.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 26, 1995	25.94	May 22, 1996	25.13

381102085485601. Local number 86-2, map number 20.

LOCATION.--Lat 38°11'02", long 85°48'56", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, enter through Louisville Memorial Park Cemetery, on south bank of Mill Creek behind Korfhage Florist, 18.2 ft southwest of MSD access gate, in Louisville. Owner: Metropolitan Sewer District.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in., depth 50 ft, screened 48-50 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 450.32 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--October 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.23 ft below land-surface datum, May 22, 1996; lowest measured, 24.76 ft below land-surface datum, Oct. 18, 1988.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 26, 1995	22.19	May 22, 1996	21.23

381123085491401. Local number 49-11-1, (RR-32), map number 21.

LOCATION.--Lat 38°11'23", long 85°49'14", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, on the east edge of a private driveway, at 2134 Garrs Lane, 150 ft south of Garrs Lane, 400 ft southeast of the junction of Garrs and Eden Lanes, in Shively. Owner: Joseph A. Winkle.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 108 ft, screened 106.5-108.0 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 455.55 ft above sea level. Measuring point: Top of plug, 2.60 ft above land-surface datum.

PERIOD OF RECORD.--May 1945 to current year. May 1945 to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 26.86 ft below land-surface datum, Apr. 25, 1985; lowest measured, 45.76 ft below land-surface datum, Mar. 21, 1957.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 26, 1995	29.37	May 22, 1996	28.30

## GROUND-WATER LEVELS

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## JEFFERSON COUNTY

381130085515001. Local number 51-11-1, map number 22.

LOCATION.--Lat 38°11'30", long 85°51'50", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, in a concrete well pit on the west side of a tool shed at the Thieneman Brothers vegetable farm, 0.3 mi northeast of the junction of Camp Ground Road and Lees Lane, in Louisville. Owner: Thieneman Brothers.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Driven observation water-table well, diameter 1.25 in., depth 70 ft, cased and screened.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 453.64 ft above sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.

REMARKS.--Water level affected by pumping from nearby well.

PERIOD OF RECORD.--February 1944 to current year. February 1944 to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 42.11 ft below land-surface datum, May 6, 1991; lowest measured, 59.80 ft below land-surface datum, Jan. 24, 1956.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 26, 1995	46.79	May 21, 1996	43.94

381139085502301. Local number 81-2, map number 23.

LOCATION.--Lat 38°11'39", long 85°50'23", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, 12 ft west of west bank of a drainage ditch, 21 ft northeast of west end of guardrail, 30 ft north of north edge of blacktop on S. Crums Lane, 40 ft northwest of northwest corner of concrete bridge, 1,000 ft east of junction of Cane Run Road and S. Crums Lane, in Louisville. Owner: Metropolitan Sewer District.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 54 ft, screened 41.5-43.5 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 444.91 ft above sea level. Measuring point: Top of casing at land-surface datum.

PERIOD OF RECORD.--May 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.52 ft below land-surface datum, May 6, 1991; lowest measured, 30.21 ft below land-surface datum, Oct. 27, 1988.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 26, 1995	26.90	May 22, 1996	26.00

381142085475702. Local number, 47-11-4, (RR-42), map number 24.

LOCATION.--Lat 38°11'42", long 85°47'57", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, at the concrete curb on the west side of Manslick Road, 0.1 mi south of junction of Manslick Road and Berry Boulevard, in Louisville. Owner: Jefferson County.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 103 ft, screened 101.5-103.0 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 453.91 ft above sea level. Measuring point: Top of plug, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--July 1945 to current year. July 1945 to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.02 ft below land-surface datum, Apr. 25, 1985; lowest measured, 49.27 ft below land-surface datum, Apr. 5, 1977.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 25, 1995	23.39	May 21, 1996	22.39

## GROUND-WATER LEVELS

## JEFFERSON COUNTY

381143085465801. Local number 46-11-2, (RR-25), map number 25.

LOCATION.--Lat 38°11'43", long 85°46'58", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, in the center of the concrete sidewalk at the driveway to Most Blessed Sacrament Catholic Church, 100 ft northeast of the junction of Taylor Boulevard and Hathaway Street, in Louisville. Owner: Jefferson County.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 60 ft, screened 59-60 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 458.66 ft above sea level. Measuring point: Top of plug, 0.97 ft below land-surface datum.

REMARKS.--Water quality sample Mar. 1, 1945.

PERIOD OF RECORD.--March 1945 to current year. March 1945 to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 24.42 ft below land-surface datum, Oct. 31, 1985; lowest measured, 52.63 ft below land-surface datum, Apr. 25, 1955.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 25, 1995	25.82	May 21, 1996	24.95

381204085455301. Local number CP-16, map number 26.

LOCATION.--Lat 38°12'04", long 85°45'53", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, near the south end of Wayside Park, 32 ft west of South Third Street curb, 52 ft east of Oakdale Avenue curb, 160 ft north of intersection with Southern Parkway, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered well, diameter 1.5 in., depth 23 ft, screened 21-23 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 456.82 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--May 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.46 ft below land-surface datum, Apr. 24, 1984; lowest measured, 13.84 ft below land-surface datum, Oct. 18, 1988.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 25, 1995	13.20	May 21, 1996	11.50

381207085484601. Local number 48-12-15, (RR-41), map number 27.

LOCATION.--Lat 38°12'07", long 85°48'46", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, on the east edge of a private driveway at the south end of a hedge, 3 ft west of a chain-link fence, 100 ft northeast of junction of Farnsley and Janell Roads, in Shively. Owner: Jefferson County.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 91 ft, screened 89.5-91.0 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 457.25 ft above sea level. Measuring point: Top of plug, 0.12 ft below land-surface datum.

REMARKS.--Water-quality sample June 29, 1945.

PERIOD OF RECORD.--June 1945 to current year. June 1945 to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.68 ft below land-surface datum, Apr. 25, 1985; lowest measured, 52.81 ft below land-surface datum, Mar. 22, 1957.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 25, 1995	30.03	May 22, 1996	28.96

## GROUND-WATER LEVELS

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## JEFFERSON COUNTY

381209085472101. Local number 47-12-3, (C-7), map number 28.

LOCATION.--Lat 38°12'09", long 85°47'21", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, in an open field near a sewer manhole, 200 ft west of the west end of Weyler Avenue, 0.2 mi east of 7th Street Road and Yellowstone Distillery, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in., depth 97 ft, screened 95-97 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 448.60 ft above sea level. Measuring point: Top of plug, 2.75 ft above land-surface datum.

PERIOD OF RECORD.--October 1935 to current year. October 1935 to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.95 ft below land-surface datum, Apr. 25, Oct. 31, 1985; lowest measured, 52.19 ft below land-surface datum, Feb. 19, 1945.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 25, 1995	17.35	May 21, 1996	16.65

381213085521701. Local number 52-12-2, (RR-22), map number 29.

LOCATION.--Lat 38°12'13", long 85°52'17", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, 50 ft south of Ohio River at the Stauffer Chemical Company Plant, 0.9 mi north of junction of Camp Ground Road and Lees Lane, in Louisville. Owner: Stauffer Chemical Company.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 101 ft, screened 99-101 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 434.30 ft above sea level. Measuring point: Floor of recorder shelter, 4.16 ft above land-surface datum.

REMARKS.--Water levels affected by Ohio River. Water-quality sample collected Feb. 12, 1945.

PERIOD OF RECORD.--August 1945 to current year. August 1945 to September 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.77 ft below land-surface datum, May 21, 1996; lowest measured, 51.79 ft below land-surface datum, June 18, 1962.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

Date	Water Level	Date	Water Level
Oct. 25, 1995	45.74	May 21, 1996	18.77

381222085505201. Local number 50-12-16 (RR-27), map number 63.

LOCATION.--Lat 38°12'22", long 85°50'52", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, on the south edge of Kramers Lane, at the east side of the entrance driveway to Marathon Oil Company storage terminal, 300 ft southwest of the junction of Camp Ground Road and Kramers Lane, in Louisville. Owner: Jefferson County.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 112 ft, screened 110.5-112.0 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 445.58 ft above sea level. Measuring point: Floor of recorder shelter, 3.40 ft above land-surface datum.

REMARKS.--Water level affected by pumping from nearby wells. Water-quality sample collected Mar. 23, 1945.

PERIOD OF RECORD.--March 1945 to current year. March 1945 to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.79 ft below land-surface datum, May 11, 1994; lowest measured, 68.37 ft below land-surface datum, Oct. 7, 1963.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 26, 1995	40.11	May 21, 1996	35.55

## GROUND-WATER LEVELS

## JEFFERSON COUNTY

381246085470601. Local number 47-12-4, (owner's number TW-2), map number 30.

LOCATION.--Lat 38°12'46", long 85°47'06", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, at the southeast corner of a used car lot, Seventh Street Road at Wathen Lane, 100 ft southeast of a Ranney collector well, in Louisville. Owner: Joseph E. Seagram and Sons Distillery.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 103 ft, cased and screened.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 458.64 ft above sea level. Measuring point: Floor of recorder shelter, 4.39 ft above land-surface datum.

REMARKS.--Water levels affected by pumping from nearby collector well.

PERIOD OF RECORD.--October 1943 to current year.

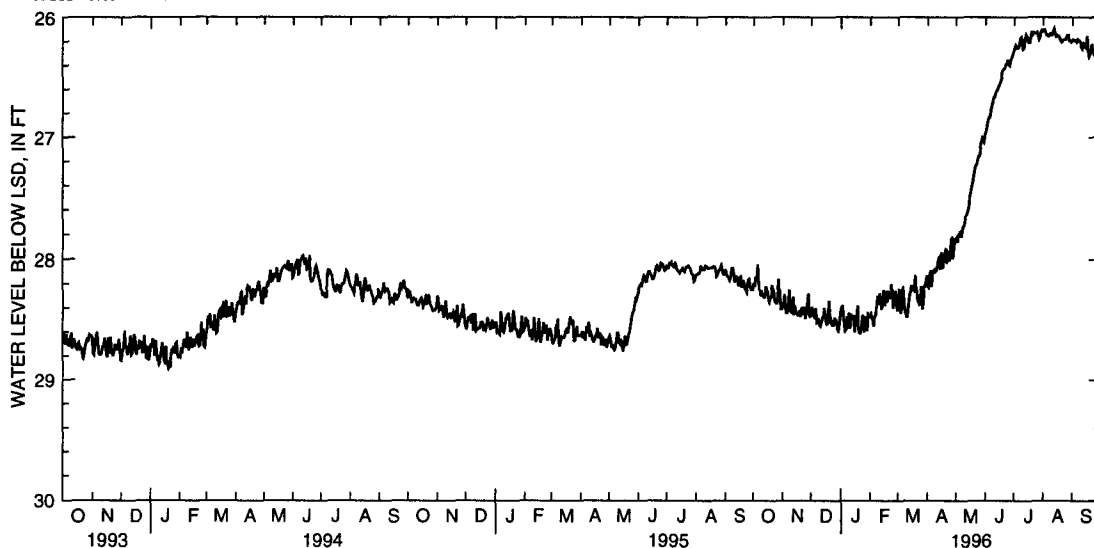
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 26.09 ft below land-surface datum, Aug. 12, 1996; lowest, 88.37 ft below land-surface datum, Mar. 9, 1944.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

## DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28.19	28.36	28.39	28.40	28.45	28.30	28.22	27.83	26.95	26.26	26.10	26.18
2	28.22	28.29	28.47	28.38	28.49	28.24	28.23	27.86	26.91	26.23	26.10	26.18
3	28.14	28.40	28.41	28.47	28.50	28.44	28.12	27.80	26.86	26.25	26.12	26.19
4	28.18	28.44	28.49	28.54	28.55	28.42	28.09	27.79	26.83	26.25	26.14	26.19
5	28.04	28.44	28.40	28.59	28.47	28.25	28.22	27.77	26.83	26.25	26.14	26.20
6	28.18	28.36	28.52	28.58	28.46	28.24	28.12	27.82	26.77	26.22	26.15	26.18
7	28.26	28.25	28.51	28.47	28.36	28.37	28.09	27.75	26.73	26.17	26.14	26.19
8	28.30	28.42	28.50	28.57	28.30	28.43	28.08	27.73	26.70	26.16	26.13	26.19
9	28.27	28.43	28.54	28.44	28.37	28.46	28.10	27.72	26.66	26.20	26.14	26.20
10	28.29	28.36	28.55	28.57	28.28	28.48	28.09	27.67	26.66	26.26	26.14	26.25
11	28.31	28.31	28.52	28.45	28.34	28.42	28.05	27.65	26.62	26.25	26.11	26.26
12	28.31	28.46	28.48	28.49	28.41	28.32	28.00	27.64	26.61	26.18	26.09	26.21
13	28.26	28.38	28.47	28.49	28.36	28.27	27.97	27.61	26.59	26.14	26.13	26.21
14	28.22	28.43	28.40	28.48	28.25	28.26	28.08	27.58	26.57	26.16	26.15	26.24
15	28.26	28.44	28.47	28.60	28.32	28.21	27.94	27.48	26.55	26.17	26.14	26.25
16	28.33	28.46	28.52	28.51	28.38	28.24	28.03	27.45	26.53	26.21	26.15	26.15
17	28.35	28.46	28.54	28.48	28.26	28.24	28.07	27.40	26.50	26.21	26.15	26.27
18	28.31	28.42	28.44	28.38	28.35	28.27	27.96	27.37	26.45	26.16	26.17	26.32
19	28.31	28.47	28.34	28.57	28.26	28.13	27.94	27.31	26.44	26.11	26.19	26.30
20	28.21	28.40	28.52	28.61	28.28	28.26	27.91	27.26	26.43	26.15	26.20	26.27
21	28.24	28.40	28.50	28.61	28.32	28.34	28.03	27.23	26.42	26.12	26.19	26.22
22	28.31	28.45	28.54	28.56	28.28	28.35	27.94	27.22	26.39	26.12	26.18	26.26
23	28.35	28.39	28.54	28.46	28.20	28.38	27.95	27.18	26.38	26.13	26.18	26.30
24	28.35	28.49	28.54	28.49	28.40	28.30	28.01	27.15	26.35	26.13	26.18	26.29
25	28.37	28.44	28.48	28.60	28.37	28.22	27.84	27.15	26.39	26.12	26.16	26.34
26	28.27	28.37	28.52	28.47	28.28	28.41	27.83	27.08	26.40	26.15	26.14	26.28
27	28.16	28.28	28.51	28.54	28.26	28.37	27.99	27.04	26.35	26.18	26.14	26.25
28	28.28	28.46	28.58	28.59	28.38	28.22	27.96	27.01	26.33	26.16	26.19	26.31
29	28.41	28.47	28.59	28.45	28.42	28.22	27.83	27.03	26.31	26.11	26.19	26.35
30	28.41	28.46	28.53	28.46	---	28.19	27.85	27.04	26.28	26.10	26.20	26.37
31	28.39	---	28.43	28.47	---	28.13	---	26.98	---	26.11	26.19	---
MAX	28.41	28.49	28.59	28.61	28.55	28.48	28.23	27.86	26.95	26.26	26.20	26.37
MIN	28.04	28.25	28.34	28.38	28.20	28.13	27.83	26.98	26.28	26.10	26.09	26.15

WTR YR 1996 HIGH 26.09 LOW 28.61





## GROUND-WATER LEVELS

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## JEFFERSON COUNTY

381246085463201. Local number CP 18A, map number 31.

LOCATION.--Lat 38°12'46", long 85°46'32", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, at Colorado and Tennessee Avenue in the northeast corner of South Central Park, 10 ft east of CP18. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in., depth 44.3 ft. screened 42-44 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 460.11 ft above sea level. Measuring point: Top of casing, 0.35 ft. below land-surface datum.

PERIOD OF RECORD.--October 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 26.51 ft below land-surface datum, Apr. 23, 1985; lowest measured, 33.18 ft below land-surface datum, Oct. 19, 1988.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 25, 1995	29.75	May 21, 1996	28.69

381251085483501. Local number 48-12-2, (C-3), map number 32.

LOCATION.--Lat 38°12'51", long 85°48'35", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, in an open field, 200 ft east of Tucker Avenue, 300 ft north of the Stitzel-Weller Distillery, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in., depth 117 ft. screened 115-117 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 465.95 ft above sea level. Measuring point: Top of casing, 60 ft above land-surface datum.

REMARKS.--Water level affected by pumping from nearby wells.

PERIOD OF RECORD.--October 1935 to current year. October 1935 to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 41.23 ft below land-surface datum, May 21, 1996; lowest measured, 78.99 ft below land-surface datum, Nov. 1, 1957.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 26, 1995	42.26	May 21, 1996	41.23

381251085500501. Local number 50-12-18, (RR-35), map number 33.

LOCATION.--Lat 38°12'51", long 85°50'05", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, 60 ft north of Camp Ground Road, 1,500 ft northeast of junction of Camp Ground Road and Ralph Avenue, in Louisville. Owner: Air Reduction Company, Inc.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 120 ft. screened 118-120 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 455.54 ft above sea level. Measuring point: Floor of recorder shelter, 5.02 ft above land-surface datum.

REMARKS.--Water levels affected by pumping from nearby wells. Water-quality sample collected May 24, 1945.

PERIOD OF RECORD.--May 1945 to current year. May 1945 to September 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 44.54 ft below land-surface datum, May 21, 1996; lowest measured, 78.35 ft below land-surface datum, Mar. 20, 1961.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 26, 1995	47.69	May 21, 1996	44.54

## GROUND-WATER LEVELS

## JEFFERSON COUNTY

381257085471801. Local number 47-12-15, (TW-4), map number 34.

LOCATION.--Lat 38° 12' 57", long 85° 47' 18", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, in the truck parking lot at the National Distillers Products Company Plant, 50 ft north of Wathen Lane, 0.3 mi east of Dixie Highway, in Louisville. Owner: National Distillers Products Company.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 8 in., depth 84 ft, cased and screened.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 455.07 ft above sea level. Measuring point: Top of casing, 4.70 ft above land-surface datum.

REMARKS.--Water level affected by pumping from nearby wells.

PERIOD OF RECORD.--July 1942 to current year. July 1942 to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.71 ft below land-surface datum, Apr. 24, 1985; lowest measured, 72.47 ft below land-surface datum, Feb. 19, 1945.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 25, 1995	25.31	May 21, 1996	24.47

381259085511002. Local number 51-13-1, (RR-21), map number 35.

LOCATION.--Lat 38° 12' 59", long 85° 51' 10", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, on south bank of Ohio River directly behind the Du Pont Chemical Company Plant, 200 ft northeast of a large brick pump house, 0.8 mi southwest of junction of Ralph Avenue and Camp Ground Road, in Louisville. Owner: Du Pont Chemical Company.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 107 ft, screened 105.5-107.0 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 440.20 ft above sea level. Measuring point: Top of plug, 1.90 ft above land-surface datum.

PERIOD OF RECORD.--February 1945 to current year. February 1945 to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.87 ft below land-surface datum, Apr. 9, 1975; lowest measured, 64.39 ft below land-surface datum, Nov. 12, 1969.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 26, 1995	54.67	May 21, 1996	24.03

## GROUND-WATER LEVELS

243

## JEFFERSON COUNTY

381315085502602. Local number 50-13-79, (NC-TW-D), map number 36.

LOCATION.--Lat 38°13'15", long 85°50'26", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, 800 ft south of Bells Lane, 0.3 mi east of the Ohio River, at the National Carbide Plant in Louisville. Owner: Air Reduction Company, Inc.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 108 ft, cased and screened.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 448.68 ft above sea level. Measuring point: Floor of recorder shelter, 4.72 ft above land-surface datum.

REMARKS.--Water levels affected by pumping from nearby wells.

PERIOD OF RECORD.--January 1956 to current year.

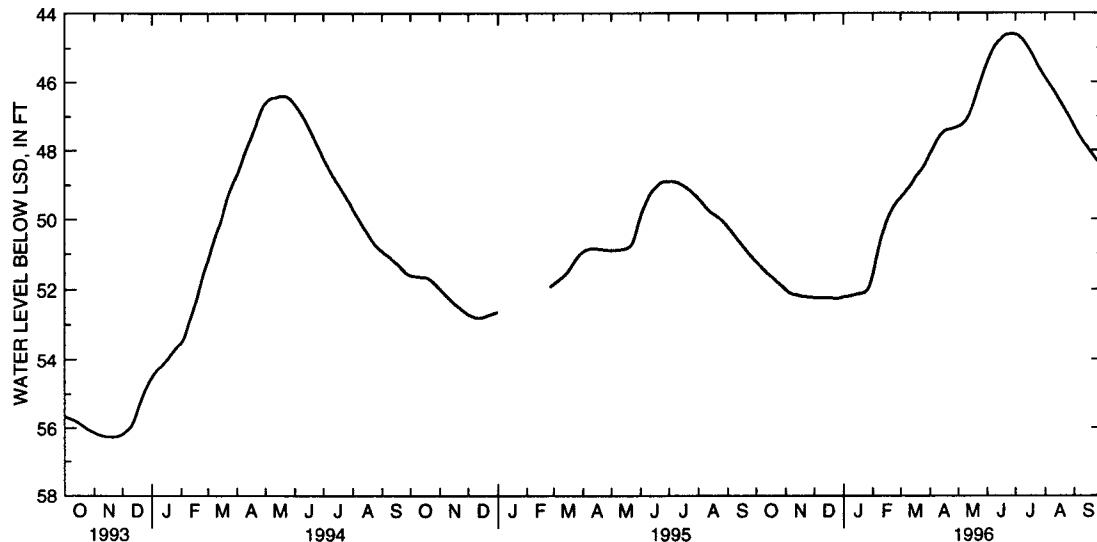
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 44.34 ft below land-surface datum, May 23, 1984; lowest, 87.29 ft below land-surface datum, Nov. 13, 1964.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

## DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51.24	52.02	52.22	52.20	51.51	49.36	48.08	47.29	45.39	44.62	45.87	47.32
2	51.27	52.04	52.22	52.20	51.39	49.32	48.03	47.28	45.32	44.63	45.92	47.37
3	51.30	52.07	52.22	52.19	51.26	49.29	47.98	47.26	45.26	44.64	45.97	47.43
4	51.33	52.09	52.23	52.19	51.14	49.26	47.92	47.24	45.19	44.66	46.01	47.48
5	51.36	52.10	52.23	52.19	51.02	49.23	47.87	47.22	45.13	44.68	46.05	47.53
6	51.39	52.11	52.23	52.18	50.90	49.19	47.82	47.20	45.07	44.71	46.10	47.58
7	51.42	52.12	52.23	52.18	50.78	49.15	47.77	47.17	45.02	44.73	46.14	47.62
8	51.45	52.13	52.24	52.17	50.66	49.12	47.71	47.13	44.98	44.76	46.18	47.67
9	51.47	52.13	52.24	52.17	50.56	49.09	47.66	47.10	44.93	44.79	46.22	47.71
10	51.50	52.14	52.24	52.16	50.46	49.05	47.62	47.05	44.90	44.83	46.26	47.76
11	51.52	52.14	52.24	52.15	50.38	49.01	47.58	47.01	44.87	44.87	46.31	47.80
12	51.55	52.15	52.24	52.15	50.30	48.97	47.54	46.96	44.83	44.91	46.35	47.84
13	51.57	52.15	52.24	52.14	50.22	48.93	47.51	46.89	44.80	44.95	46.40	47.87
14	51.59	52.16	52.23	52.13	50.14	48.88	47.48	46.83	44.78	44.99	46.44	47.91
15	51.62	52.17	52.23	52.13	50.06	48.84	47.45	46.75	44.75	45.04	46.49	47.95
16	51.64	52.18	52.24	52.12	49.99	48.79	47.43	46.68	44.72	45.09	46.54	47.99
17	51.67	52.18	52.24	52.12	49.92	48.75	47.41	46.60	44.69	45.14	46.58	48.03
18	51.69	52.19	52.24	52.11	49.86	48.72	47.40	46.52	44.67	45.18	46.63	48.06
19	51.71	52.19	52.24	52.11	49.79	48.68	47.39	46.44	44.65	45.24	46.68	48.10
20	51.74	52.19	52.24	52.10	49.75	48.65	47.38	46.35	44.63	45.29	46.73	48.14
21	51.76	52.20	52.25	52.10	49.69	48.61	47.38	46.26	44.62	45.34	46.77	48.17
22	51.79	52.20	52.25	52.09	49.64	48.58	47.37	46.18	44.62	45.40	46.82	48.21
23	51.81	52.20	52.25	52.07	49.60	48.54	47.36	46.09	44.61	45.46	46.87	48.25
24	51.83	52.21	52.25	52.05	49.56	48.50	47.36	46.00	44.61	45.51	46.92	48.28
25	51.86	52.21	52.25	52.03	49.53	48.45	47.35	45.92	44.61	45.56	46.97	48.32
26	51.88	52.21	52.25	52.00	49.49	48.41	47.34	45.83	44.61	45.61	47.02	48.35
27	51.90	52.21	52.24	51.95	49.45	48.36	47.33	45.75	44.60	45.66	47.07	48.39
28	51.92	52.21	52.24	51.89	49.42	48.30	47.32	45.67	44.60	45.70	47.12	48.42
29	51.95	52.22	52.23	51.82	49.39	48.25	47.31	45.60	44.61	45.74	47.17	48.45
30	51.97	52.22	52.22	51.73	---	48.19	47.30	45.53	44.61	45.79	47.22	48.48
31	52.00	---	52.21	51.62	---	48.13	---	45.46	---	45.83	47.27	---
MAX	52.00	52.22	52.25	52.20	51.51	49.36	48.08	47.29	45.39	45.83	47.27	48.48
MIN	51.24	52.02	52.21	51.62	49.39	48.13	47.30	45.46	44.60	44.62	45.87	47.32

WTR YR 1996 HIGH 44.60 LOW 52.25



## GROUND-WATER LEVELS

## JEFFERSON COUNTY

381320085464101. Local number CP-15, map number 37.

LOCATION.--Lat 38°13'20", long 85°45'41", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, at the northeast corner of Samuel Jones Park, Patton Court and South 13th Street, 14 ft south of chain-link fence, 22 ft south of curb on south side of Patton Court, 45 ft west of curb on west side of south 13th Street. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 100 ft, screened 96.5-100.0 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 453.68 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--December 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.84 ft below land-surface datum, Apr. 23, 1985; lowest measured, 30.03 ft below land-surface datum, Dec. 14, 1978.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 25, 1995	24.67	May 21, 1996	23.92

381331085491601. Local number 49-13-40, (RR-26), map number 38.

LOCATION.--Lat 38°13'31", long 85°49'40", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, at the southeast corner of Algonquin Parkway and 39th Street, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 115 ft, screened 113.5-115.0 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 450.43 ft above sea level. Measuring point: Top of plug, 1.40 ft above land-surface datum.

REMARKS.--Water-quality samples Mar. 13, 1945 to June 28, 1966.

PERIOD OF RECORD.--March 1945 to current year. March to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 37.01 ft below land-surface datum, Apr. 25, 1985; lowest measured, 76.25 ft below land-surface datum, Nov. 29, 1963.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 24, 1995	38.85	May 21, 1996	38.70

381346085453801. Local number 45-13-2 (St. Patrick's well), map number 39.

LOCATION.--Lat 38°13'46", long 85°45'38", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, at the rear of Van Brook Manor Nursing Home, 1382 South Third Street, in Louisville. Owner: Van Brook Manor, Inc.

AQUIFER.--Knox Dolomite of Early Ordovician age. Aquifer code: 367KNOX.

WELL CHARACTERISTICS.--Drilled artesian (flowing) gas test, diameter 1-3/4 in., depth 1952 ft, length of wooden casing unknown.

INSTRUMENTATION.--Bi-annual volumetric measurement by USGS personnel.

DATUM.--Elevation of land-surface datum is 458.15 ft above sea level. Measuring point: Valve at pressure gage, 0.30 ft below land-surface datum.

REMARKS.--Water-quality samples Feb. 9, 1938 to July 7, 1981.

PERIOD OF RECORD.--February 1971 to current year. February 1971 to September 1977 unpublished, on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Maximum water flow measured, 0.50 gal/min Mar. 6, 1978; minimum measured, zero flow (frozen) Jan. 31, 1977.

WATER FLOW, IN GALLONS PER MINUTE (GAL/MIN), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Flow	Date	Water Flow
Oct. 26, 1995	.02	May 21, 1996	.02

## GROUND-WATER LEVELS

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## JEFFERSON COUNTY

381346085454201. Local number CP 1, map number 40.

LOCATION.--Lat 38°13'46", long 85°45'42", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, at the southeast corner of Central Park, 100 ft north of a concrete retaining wall on Magnolia Street, 20 ft west of concrete retaining wall on South Fourth Street, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 106.2 ft, screened 103.2-106.2 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 459.86 ft above sea level. Measuring point: Top of casing, at land-surface datum.

REMARKS.--Water-quality sample collected June 16, 1978 to Sept. 17, 1981.

PERIOD OF RECORD.--June 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.98 ft below land-surface datum, Apr. 23, 1985; lowest measured, 41.23 ft below land-surface datum, June 16, 1977.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 25, 1995	32.23	May 20, 1996	31.54

381400085445001. Local number CP 6, map number 41.

LOCATION.--Lat 38°14'00", long 85°44'45", Hydrologic Unit 05140101, County Code 111, Louisville East quadrangle, at the northwest corner of Shelby Park, 70 ft south of an alley, 80 ft east of South Jackson Street, 300 ft southeast of the junction of East Oak and South Jackson Streets, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 79.2 ft, screened 52.2-55.2 ft, 76.2-79.2 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 459.26 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--July 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 30.86 ft below land-surface datum, Oct. 30, 1984; lowest measured, 39.95 ft below land-surface datum, July 5, Aug. 4, 1977.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 25, 1995	33.40	May 20, 1996	32.06

381417085500301. Local number 50-14-4 (RR-23), map number 42.

LOCATION.--Lat 38°14'17", long 85°50'03", Hydrologic Unit 05140101, County Code 111, at the Louisville Refining Company Plant, 1300 South Western Parkway, on top of Ohio River flood wall, 200 ft southeast of a river barge loading dock, in Louisville. Owner: Ashland Oil Company.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 101 ft, screened 99.5-101.0 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 453.83 ft above sea level. Measuring point: Top of plug, 5.60 ft above land-surface datum.

REMARKS.--Water-quality sample collected Feb. 15, 1945.

PERIOD OF RECORD.--February 1945 to current year. February 1945 to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 43.70 ft below land-surface datum, May 21, 1996; lowest measured, 77.08 ft below land-surface datum, Dec. 17, 1954.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 24, 1995	56.56	May 21, 1996	43.70

## GROUND-WATER LEVELS

## JEFFERSON COUNTY

381428085485701. Local number 78-6, map number 43.

LOCATION.--Lat 38°14'28", long 85°48'57", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, at Virginia Avenue, I-264 South Exit, 19 ft east of curb on east side of exit road, 24 ft southeast of south end of a metal guardrail, 100 ft north of curb on north edge of Virginia Avenue, in Louisville. Owner: Kentucky Highway Department.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 98 ft, screened 96-98 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 440.28 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--February 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.96 ft below land-surface datum, May 6, 1991; lowest measured, 29.75 ft below land-surface datum, Dec. 13, 1978.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 24, 1995	26.06	May 20, 1996	24.59

381430085472501. Local number CP-17, map number 44.

LOCATION.--Lat 38°14'30", long 85°47'25", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, 21 ft west of the west curb on 22nd Street, 45 ft north of north curb on Greenwood Street, at the southeast corner of Victory Park, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 86.0 ft, screened 84.0-86.0 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 451.78 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--March 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 26.20 ft below land-surface datum, Apr. 23, 1985; lowest measured, 29.96 ft below land-surface datum, Oct. 25, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 24, 1995	28.19	May 20, 1996	27.86

## GROUND-WATER LEVELS

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## JEFFERSON COUNTY

381441085452701. Local number 45-14-71, (owner's number A-2), map number 45.

LOCATION.--Lat 38° 14' 41", long 85° 45' 27", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, at the Louisville Free Public Library, 301 West York Street, on east side of building at base of the TV-radio tower, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 8 in., depth 105 ft. cased and screened.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 454.23 ft above sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.

REMARKS.--Water-quality sample collected May 8, 1956.

PERIOD OF RECORD.--February 1937 to current year. February 1937 to September 1976 published in hydrograph form and on file at district office.

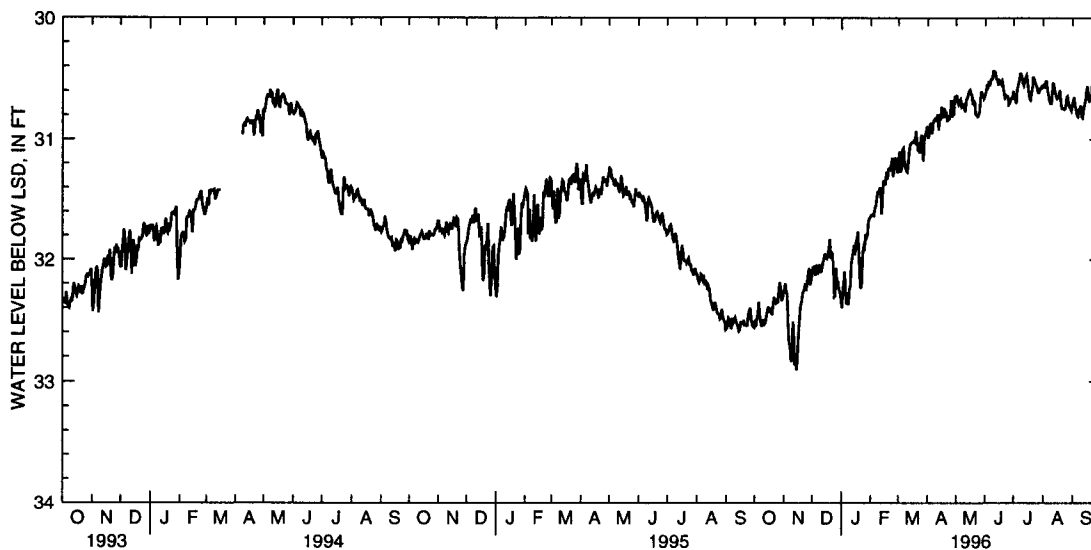
EXTREMES FOR PERIOD OF RECORD.--Highest water level observed, 28.09 ft below land-surface datum, May 20, 1984; lowest, 77.82 ft below land-surface datum, Sept. 18, 1955.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

## DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32.50	32.24	32.06	32.40	31.63	31.15	30.99	30.63	30.61	30.66	30.55	30.68
2	32.55	32.20	32.09	32.26	31.63	31.10	30.96	30.69	30.56	30.67	30.56	30.65
3	32.49	32.27	32.05	32.19	31.62	31.27	30.87	30.71	30.57	30.70	30.52	30.72
4	32.45	32.29	32.13	32.10	31.63	31.23	30.87	30.69	30.52	30.58	30.52	30.75
5	32.35	32.57	32.04	32.26	31.57	31.08	30.95	30.67	30.56	30.55	30.59	30.80
6	32.45	32.69	32.12	32.37	31.55	31.07	30.86	30.73	30.51	30.52	30.63	30.81
7	32.52	32.72	32.09	32.35	31.48	31.18	30.84	30.72	30.50	30.46	30.68	30.75
8	32.55	32.84	32.04	32.36	31.43	31.24	30.83	30.70	30.50	30.46	30.70	30.74
9	32.50	32.81	32.10	32.25	31.46	31.26	30.84	30.74	30.43	30.48	30.70	30.72
10	32.50	32.51	32.10	32.22	31.40	31.27	30.82	30.77	30.46	30.53	30.62	30.81
11	32.53	32.66	32.05	32.03	31.42	31.19	30.79	30.67	30.45	30.55	30.53	30.82
12	32.52	32.87	32.01	31.98	31.62	31.09	30.92	30.66	30.50	30.51	30.56	30.76
13	32.47	32.83	31.98	31.93	31.45	31.04	30.79	30.63	30.51	30.49	30.60	30.71
14	32.43	32.91	31.95	31.88	31.34	31.03	30.84	30.60	30.55	30.47	30.64	30.68
15	32.39	32.77	31.98	31.96	31.36	31.02	30.73	30.59	30.51	30.53	30.66	30.60
16	32.42	32.60	31.99	31.86	31.38	31.02	30.79	30.62	30.52	30.60	30.65	30.56
17	32.43	32.47	31.97	31.83	31.27	31.01	30.82	30.63	30.54	30.66	30.64	30.63
18	32.40	32.38	31.90	31.77	31.33	31.02	30.74	30.71	30.52	30.67	30.59	30.69
19	32.46	32.35	31.83	31.93	31.25	30.93	30.80	30.68	30.55	30.61	30.69	30.63
20	32.37	32.29	31.99	32.13	31.24	31.01	30.77	30.69	30.61	30.59	30.74	30.66
21	32.31	32.26	31.94	32.24	31.25	31.08	30.85	30.79	30.65	30.48	30.74	30.56
22	32.35	32.24	31.95	32.20	31.21	31.07	30.83	30.80	30.63	30.50	30.74	30.56
23	32.36	32.20	32.12	31.96	31.15	31.11	30.83	30.81	30.64	30.53	30.75	30.63
24	32.34	32.26	32.31	31.89	31.31	31.00	30.80	30.80	30.64	30.55	30.74	30.60
25	32.36	32.19	32.30	31.90	31.25	30.96	30.68	30.77	30.71	30.57	30.65	30.63
26	32.27	32.13	32.07	31.79	31.17	31.12	30.68	30.66	30.70	30.61	30.64	30.58
27	32.19	32.07	32.21	31.82	31.15	31.18	30.80	30.60	30.66	30.61	30.69	30.62
28	32.24	32.21	32.18	31.80	31.24	30.98	30.79	30.62	30.66	30.58	30.73	30.63
29	32.34	32.18	32.25	31.68	31.28	30.96	30.64	30.63	30.65	30.58	30.74	30.62
30	32.32	32.13	32.27	31.66	---	30.93	30.66	30.66	30.60	30.56	30.76	30.63
31	32.27	---	32.32	31.65	---	30.89	---	30.64	---	30.57	30.72	---
MAX	32.55	32.91	32.32	32.40	31.63	31.27	30.99	30.81	30.71	30.70	30.76	30.82
MIN	32.19	32.07	31.83	31.65	31.15	30.89	30.64	30.59	30.43	30.46	30.52	30.56

WTR YR 1996 HIGH 30.43 LOW 32.91



## GROUND-WATER LEVELS

## JEFFERSON COUNTY

381447085454001. Local number 45-14-66, (owner's number 5), map number 46.

LOCATION.--Lat 38° 14' 47", long 85° 45' 40". Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, at Courier Journal-Louisville Times, Sixth and Broadway Streets in subbasement below building entrance walkway from Armory Street, in Louisville. Owner: Gannett.

AQUIFER.--Louisville Limestone and Laurel Dolomite of Middle Silurian age. Aquifer code: 354LVLL.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 12 in., depth 190 ft, cased to 121 ft, open-hole 121-190 ft.

INSTRUMENTATION.--Continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 455.83 ft above sea level. Measuring point: Top of metal well cover, 15.87 ft below land-surface datum.

REMARKS.--Earthquake monitor well. Water-quality samples collected Aug. 29, 1949 and Aug. 18, 1950.

PERIOD OF RECORD.--October 1953 to current year. October 1953 to September 1976 published in hydrograph form and on file at district office.

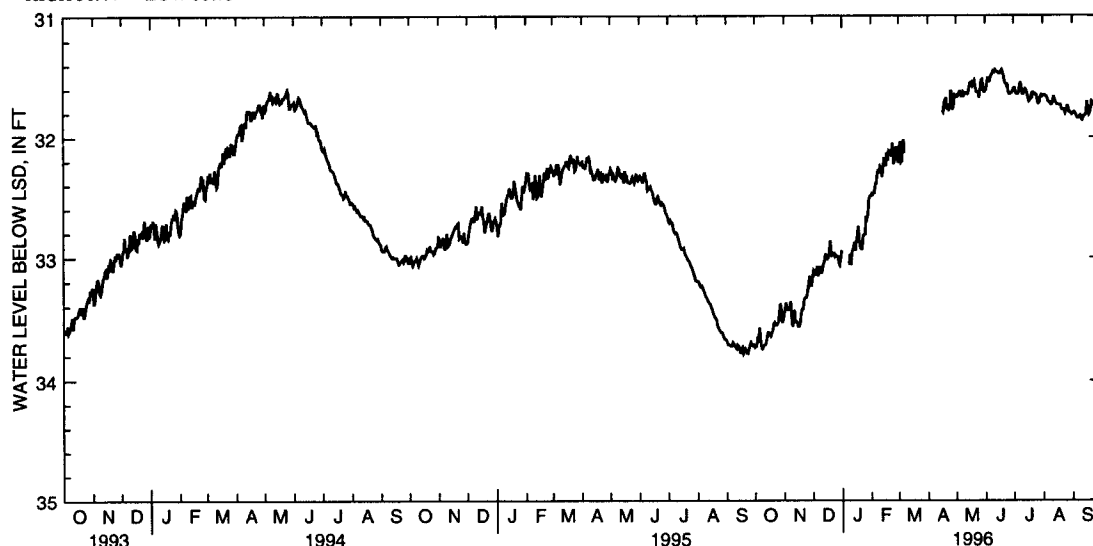
EXTREMES FOR PERIOD OF RECORD.--Highest water level observed, 28.80 ft below land-surface datum, June 2, 1984; lowest, 86.85 ft below land-surface datum, Sept. 20, 1955.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

## DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33.72	33.42	33.11	---	32.47	32.10	---	31.65	31.61	31.59	31.65	31.80
2	33.72	33.37	33.13	---	32.48	32.04	---	31.66	31.56	31.59	31.65	31.79
3	33.66	33.41	33.10	---	32.46	32.21	---	31.65	31.51	31.63	31.65	31.79
4	33.67	33.43	33.14	---	32.47	32.20	---	31.62	31.51	31.64	31.66	31.81
5	33.57	33.43	33.07	---	32.39	32.04	---	31.62	31.54	31.64	31.67	31.83
6	33.65	33.42	33.15	---	32.39	32.02	---	31.66	31.50	31.63	31.70	31.84
7	33.72	33.36	33.11	---	32.31	32.13	---	31.66	31.48	31.57	31.71	31.84
8	33.75	33.50	33.07	33.06	32.27	---	---	31.63	31.47	31.54	31.71	31.83
9	33.72	33.56	33.12	32.97	32.30	---	---	31.65	31.45	31.58	31.73	31.82
10	33.71	33.51	33.12	33.06	32.24	---	---	31.63	31.46	31.64	31.73	31.85
11	33.71	33.43	33.07	32.95	32.25	---	---	31.63	31.44	31.64	31.70	31.86
12	33.70	33.52	33.04	32.93	32.33	---	---	31.64	31.45	31.62	31.66	31.84
13	33.65	33.52	33.01	32.89	32.28	---	---	31.64	31.46	31.60	31.69	31.82
14	33.61	33.53	32.97	32.87	32.17	---	---	31.60	31.46	31.61	31.71	31.82
15	33.61	33.56	32.99	32.94	32.21	---	---	31.55	31.47	31.64	31.72	31.80
16	33.63	33.56	33.01	32.85	32.24	---	31.78	31.55	31.47	31.68	31.73	31.70
17	33.64	33.53	33.00	32.82	32.13	---	31.79	31.54	31.45	31.70	31.73	31.78
18	33.61	33.46	32.94	32.74	32.19	---	31.71	31.57	31.44	31.69	31.73	31.81
19	33.59	33.42	32.86	32.86	32.11	---	31.69	31.55	31.46	31.66	31.73	31.79
20	33.54	33.42	32.99	32.91	32.12	---	31.67	31.53	31.49	31.68	31.76	31.75
21	33.53	33.35	32.96	32.93	32.14	---	31.77	31.58	31.54	31.63	31.77	31.70
22	33.55	33.33	32.96	32.93	32.11	---	31.73	31.62	31.55	31.63	31.77	31.71
23	33.55	33.33	32.96	32.82	32.05	---	31.77	31.62	31.57	31.64	31.77	31.73
24	33.54	33.32	32.99	32.81	32.22	---	31.76	31.62	31.55	31.64	31.80	31.72
25	33.53	33.27	32.98	32.81	32.20	---	31.61	31.67	31.62	31.65	31.78	31.73
26	33.46	33.22	32.99	32.66	32.11	---	31.65	31.60	31.64	31.71	31.74	31.69
27	33.38	33.15	32.99	32.68	32.08	---	31.77	31.53	31.64	31.72	31.74	31.68
28	33.42	33.23	33.04	32.64	32.16	---	31.74	31.52	31.63	31.71	31.79	31.73
29	33.53	33.23	33.06	32.52	32.21	---	31.65	31.57	31.63	31.66	31.79	31.74
30	33.51	33.17	33.01	32.49	---	---	31.66	31.62	31.61	31.65	31.80	31.73
31	33.47	---	32.94	32.49	---	---	---	31.62	---	31.66	31.81	---
MAX	33.75	33.56	33.15	---	32.48	---	---	31.67	31.64	31.72	31.81	31.86
MIN	33.38	33.15	32.86	---	32.05	---	---	31.52	31.44	31.54	31.65	31.68

WTR YR 1996 HIGH 31.44 LOW 33.75





## GROUND-WATER LEVELS

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## JEFFERSON COUNTY

381501085464601. Local number CP 10, map number 47.

LOCATION.--Lat 38°15'01", long 85°46'46", Hydrologic Unit 05140101, County Code 111, New Albany quadrangle, at the center of the west side of Sheppard Park, 10 ft south of a concrete walkway, 17 ft east of south 17th Street, 150 ft north of the junction of Magazine and South 17th Street, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 59.0 ft, screened 56.0-59.0 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 460.73 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--August 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.65 ft below land-surface datum, Oct. 31, 1984; lowest measured, 45.14 ft below land-surface datum, Aug. 4, 1977.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 24, 1995	37.45	May 20, 1996	36.55

381503085453301. Local number 45-15-36, map number 48.

LOCATION.--Lat 38°15'03", long 85°45'33", Hydrologic Unit 05140101, County Code 111, New Albany quadrangle, in subbasement of Kentucky Towers Apartments, on east side of South Fifth Street, at Fifth and Muhammad Ali Blvd., in Louisville. Owner: Kentucky Towers (formerly Kentucky Hotel).

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 10 in., depth 104 ft, screened 84-104 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 460.00 ft above sea level. Measuring point: Floor of recorder shelter 22.81 ft below land-surface datum.

PERIOD OF RECORD.--September 1948 to current year. November 1973 to September 1976 published in hydrograph form and on file at district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 33.53 ft below land-surface datum, Apr. 24, 1984; lowest measured, 87.74 ft below land-surface datum, Sept. 23, 1955.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 25, 1995	39.32	May 20, 1996	36.56

381504085443202. Local number CP 7A, map number 49.

LOCATION.--Lat 38°15'04", long 85°44'32", Hydrologic Unit 05140101, County Code 111, Jeffersonville quadrangle, at the southwest corner of east Louisville Park, 13.7 ft west of a tennis court fence, 16.5 ft east of curb on south Hancock Street, 58.2 ft north of curb on east Liberty Street, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 84.6 ft, screened 71.1-74.1 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 467.19 ft above sea level. Measuring point: Top of casing, at land-surface datum.

REMARKS.--Replaces destroyed well 381504085443201 (CP 7), which was 10 ft north.

PERIOD OF RECORD.--July 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 43.42 ft below land-surface datum, Apr. 24, 1984; lowest measured, 47.69 ft below land-surface datum, Oct. 25, 1995.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 25, 1995	47.69	May 20, 1996	44.67

## GROUND-WATER LEVELS

## JEFFERSON COUNTY

381508085455701. Local number CP 4, map number 50.

LOCATION.--Lat 38°15'08", long 85°45'57", Hydrologic Unit 05140101, County Code 111, New Albany quadrangle, at the southwest corner of Beecher Park, 15 ft west of the South 9th Street sidewalk, 20 ft north of the Walnut Street sidewalk, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 109.8 ft, screened 106.8-109.8 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 459.47 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--July 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 33.43 ft below land-surface datum, Apr. 24, 1984; lowest measured, 43.31 ft below land-surface datum, Aug. 4, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 24, 1995	38.45	May 20, 1996	36.17

381518085454401. Local number 86-10 (Mazzoni), map number 51.

LOCATION.--Lat 38°15'18", long 85°45'44", Hydrologic Unit 05140101, County Code 111, New Albany quadrangle, southwest side of Congress Alley and 7th Street, 3 ft south of alley, west of entrance to parking garage. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 2.5 in., depth 98 ft, screened 41-43 ft, 61-63 ft, 96-98 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 455.13 ft above sea level. Measuring point: Top of casing, 3.0 ft above land-surface datum.

REMARKS.--Water levels affected by Ohio River stage and pumping from nearby wells.

PERIOD OF RECORD.--October 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 32.73 ft below land-surface datum, Nov. 18, 1986; lowest, 37.14 ft below land-surface datum, Aug. 24, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 24, 1995	36.27	May 20, 1996	33.29

381518085453402. Local number 86-11 (Courthouse Annex), map number 52.

LOCATION.--Lat 38°15'18", long 85°45'34", Hydrologic Unit 05140101, County Code 111, New Albany quadrangle, at northwest corner behind Courthouse Annex building between 5th and 6th Streets, east of walkway to parking garage. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 2.5 in., depth 102 ft, screened 42-44 ft, 61-63 ft, 99-101 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 461.63 ft above sea level. Measuring point: Top of casing, 3.0 ft above land-surface datum.

REMARKS.--Water levels affected by Ohio River stage and pumping from nearby wells.

PERIOD OF RECORD.--November 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 40.24 ft below land-surface datum, Nov. 18, 1986; lowest, 46.82 ft below land-surface datum, July 27, 1991.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 24, 1995	44.75	May 20, 1996	41.55

## GROUND-WATER LEVELS

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## JEFFERSON COUNTY

381518085451801. Local number 87-1 (Levy s), map number 53.

LOCATION.--Lat 38°15'18", long 85°45'18", Hydrologic Unit 05140101, County Code 111, New Albany quadrangle, at 3rd and Market Streets, in west corner of basement in old Levy's building, under east sidewalk on 3rd Street. Owner: Metts Co., Inc.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 8 in., depth 99 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 464.72 ft above sea level. Measuring point: Top of casing, 11.5 ft below land-surface datum.

REMARKS.--Water levels affected by Ohio River stage and pumping from nearby wells.

PERIOD OF RECORD.--January 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 43.46 ft below land-surface datum, Apr. 10, 1989; lowest, 49.26 ft below land-surface datum, July 27, 1991.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 24, 1995	47.77	May 20, 1996	Destroyed

## GROUND-WATER LEVELS

## JEFFERSON COUNTY

381527085453001. Local number 86-7 (Belvedere Well), map number 54.

LOCATION.--Lat 38°15'27", long 85°45'30", Hydrologic Unit 05140101, County Code 111, New Albany quadrangle, at Place Montpelier and Main Street, 3 ft east of east sidewalk. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 2.5 in., depth 89.9 ft, screened 85.1-87.1 ft.

INSTRUMENTATION.--Continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 452.43 ft above sea level. Measuring point: Top of casing, 3.0 ft above land-surface datum.

REMARKS.--Water levels affected by Ohio River stage and pumping from nearby wells.

PERIOD OF RECORD.--October 1986 to current year.

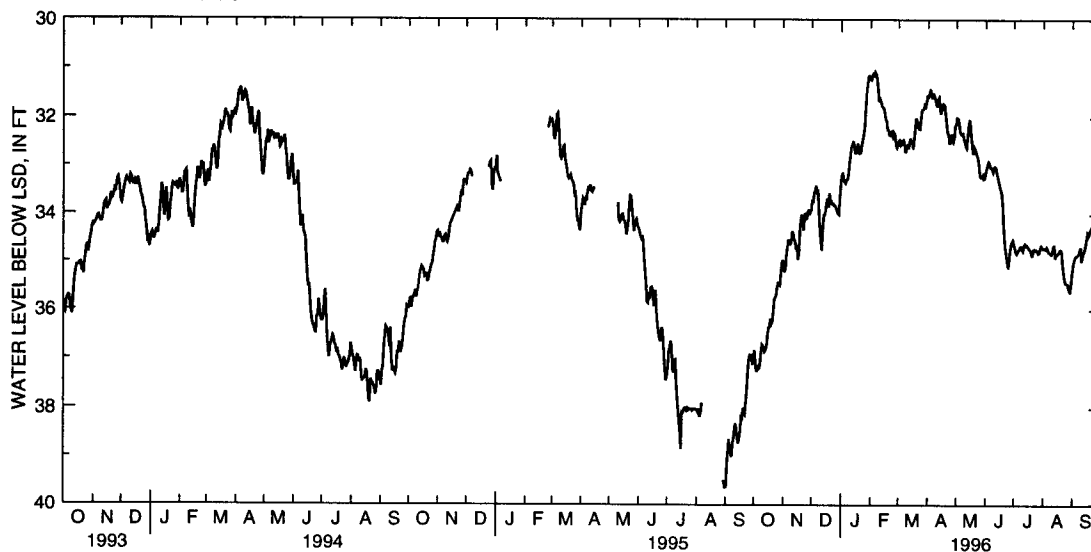
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 30.99 ft below land-surface datum, Nov. 11 1986; lowest, 39.64 ft below land-surface datum, Sept. 2-3, 1993, Aug. 31, 1995.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

## DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36.83	35.07	33.70	33.20	31.25	32.49	31.56	32.00	33.05	34.70	34.71	35.08
2	37.04	35.21	33.76	33.13	31.15	32.43	31.51	32.01	32.96	34.79	34.71	34.96
3	37.24	35.12	33.56	33.29	31.11	32.56	31.41	32.10	32.90	34.82	34.73	34.90
4	37.25	34.83	33.53	33.32	31.13	32.54	31.49	32.28	32.93	34.80	34.69	34.87
5	37.13	34.68	33.41	33.35	31.07	32.52	31.60	32.32	33.02	34.74	34.73	34.86
6	37.22	34.54	33.53	33.29	31.11	32.43	31.49	32.34	33.02	34.74	34.79	34.84
7	37.10	34.62	33.49	33.28	31.21	32.56	31.54	32.32	33.07	34.67	34.80	34.81
8	36.88	34.63	33.96	33.16	31.41	32.71	31.59	32.41	33.11	34.67	34.81	34.74
9	36.71	34.58	34.35	32.92	31.66	32.63	31.68	32.48	33.01	34.73	34.83	34.69
10	36.74	34.36	34.59	32.77	31.61	32.54	31.76	32.57	33.00	34.76	34.78	34.97
11	36.79	34.41	34.76	32.60	31.66	32.63	31.62	32.61	33.03	34.65	34.69	34.87
12	36.85	34.54	34.31	32.57	31.75	32.53	31.58	32.38	33.14	34.62	34.64	34.80
13	36.81	34.57	34.02	32.48	31.78	32.42	31.80	32.14	33.24	34.66	34.91	34.75
14	36.73	34.74	34.02	32.55	31.79	32.52	31.91	32.03	33.32	34.65	34.83	34.66
15	36.52	34.67	33.93	32.72	31.88	32.46	31.75	32.18	33.42	34.68	34.83	34.55
16	36.36	34.95	33.76	32.72	32.02	32.63	31.79	32.43	33.49	34.71	34.82	34.40
17	36.35	34.81	33.67	32.63	32.05	32.43	31.71	32.61	33.58	34.74	34.79	34.45
18	36.18	34.35	33.85	32.53	32.24	32.24	31.73	32.74	33.78	34.76	34.74	34.40
19	36.28	34.13	33.56	32.73	32.25	32.00	31.95	32.59	34.21	34.85	34.74	34.33
20	36.23	34.01	33.75	32.73	32.35	32.05	32.14	32.63	34.50	34.85	34.77	34.29
21	36.02	34.11	33.73	32.70	32.36	32.16	32.30	32.70	34.72	34.74	35.06	34.26
22	35.78	34.34	33.79	32.54	32.29	32.22	32.34	32.78	34.87	34.73	35.23	34.22
23	35.74	34.00	33.78	32.42	32.27	32.23	32.53	32.84	34.99	34.75	35.35	34.17
24	35.72	33.99	33.82	32.32	32.45	32.02	32.48	32.99	35.12	34.74	35.43	34.21
25	35.54	34.11	33.82	32.16	32.31	31.84	32.33	33.20	34.93	34.76	35.44	34.20
26	35.44	34.03	33.87	31.77	32.34	31.82	32.44	33.23	34.75	34.81	35.45	34.13
27	35.45	33.91	33.93	31.50	32.56	31.81	32.48	33.23	34.63	34.80	35.52	34.17
28	35.48	34.01	33.98	31.32	32.61	31.73	32.39	33.18	34.57	34.72	35.58	34.16
29	35.24	33.95	34.00	31.16	32.53	31.76	32.15	33.26	34.54	34.66	35.63	34.03
30	35.02	33.91	33.65	31.15	---	31.67	32.14	33.25	34.62	34.68	35.40	33.91
31	34.96	---	33.35	31.18	---	31.55	---	33.13	---	34.71	35.23	---
MAX	37.25	35.21	34.76	33.35	32.61	32.71	32.53	33.26	35.12	34.85	35.63	35.08
MIN	34.96	33.91	33.35	31.15	31.07	31.55	31.41	32.00	32.90	34.62	34.64	33.91

WTR YR 1996 HIGH 31.07 LOW 37.25



## GROUND-WATER LEVELS

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## JEFFERSON COUNTY

381539085465201. Local number CP 9, map number 55.

LOCATION.--Lat 38°15'39", long 85°46'52", Hydrologic Unit 05140101, County Code 111, New Albany quadrangle, at the southeast corner of Boone Square Park, 20 ft north of Rowan Street, 150 ft west of South 19th Street, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 42.7 ft, screened 39.7-42.7 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 456.99 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--July 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 31.38 ft below land-surface datum, Apr. 24, 1985; lowest measured, 40.51 ft below land-surface datum, July 12, 1977.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 24, 1995	34.11	May 20, 1996	33.13

381543085480101. Local number CP 14, map number 56.

LOCATION.--Lat 38°15'43", long 85°48'01", Hydrologic Unit 05140101, County Code 111, New Albany quadrangle, at the southwest corner of Westonia Park, South 30th Street at an unnamed alley south of Rowan Street, 5 ft north of curb on north side of alley, 8 ft east of a telephone pole at the curb on east side of South 30th Street, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 45 ft, screened 43-45 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 455.71 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--July 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 32.35 ft below land-surface datum, Aug. 25, 1980; lowest measured, 36.13 ft below land-surface datum, Dec. 13, 1978.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 24, 1995	34.30	May 20, 1996	33.93

381553085431602. Local number M-2, map number 57.

LOCATION.--Lat 38°15'53", long 85°43'16", Hydrologic Unit 05140101, County Code 111, Jeffersonville quadrangle, 15 ft west of the northwest corner of Metropolitan Sewer District, Beargrass Creek Pump Station Building, 100 ft west of end of Letterle Avenue, 150 ft south of I-71, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 98 ft, screened 96-98 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 446.77 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--December 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.93 ft below land-surface datum, Dec. 15, 1978; lowest measured, 28.71 ft below land-surface datum, Oct. 25, 1995.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 25, 1995	28.71	May 20, 1996	18.52

## GROUND-WATER LEVELS

## JEFFERSON COUNTY

381604085430501. Local number 43-16-8, (WC-1), map number 58.

LOCATION.--Lat 38° 16' 04", long 85° 43' 05", Hydrologic Unit 05140101, County Code 111, Jeffersonville quadrangle, 100 ft northeast of junction of River Road and entrance road to Bandman Park, 0.2 mi east of Beargrass Creek, in Louisville. Owner: Louisville Water Company.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 4 in., depth 101 ft, screened 99-101 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 438.88 ft above sea level. Measuring point: Floor of recorder shelter, 4.83 ft above land-surface datum.

REMARKS.--Water levels affected by Ohio River. Water-quality samples collected Apr. 2, 1944 and July 10, 1979.

PERIOD OF RECORD.--May 1946 to current year. May 1946 to September 1976 published in hydrograph form and on file at district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 0.09 ft below land-surface datum, Sept. 14, 1979; lowest measured, 27.90 ft below land-surface datum, Feb. 10, 1948.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 25, 1995	17.68	May 20, 1996	16.91

381607085483601. Local number CP 3, map number 59.

LOCATION.--Lat 38° 16' 07", long 85° 48' 36", Hydrologic Unit 05140101, County Code 111, New Albany quadrangle, at the northwest corner of Taylor Park, 150 ft east of North 38th Street, 200 ft north of Jewell Street, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 55.7 ft, screened 52.7-55.7 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 445.33 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--June 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.97 ft below land-surface datum, May 6, 1991; lowest measured, 46.67 ft below land-surface datum, June 29, 1977.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 24, 1995	33.22	May 20, 1996	30.82

## GROUND-WATER LEVELS

255

## JEFFERSON COUNTY

381638085415801. Local number 41-16-3, (WC-4), map number 60.

LOCATION.--Lat 38°16'38", long 85°41'58", Hydrologic Unit 05140101, County Code 111, Jeffersonville quadrangle, at the northwest corner of River Road and Zorn Avenue, in Louisville. Owner: Louisville Water Company.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in., depth 104 ft, screened 98-100 ft.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 435.79 ft above sea level. Measuring point: Floor of recorder shelter, 4.41 ft above land-surface datum.

REMARKS.--Water levels affected by Ohio River, which causes level to rise above land surface. Water-quality sample collected July 10, 1979.

PERIOD OF RECORD.--April 1946 to current year.

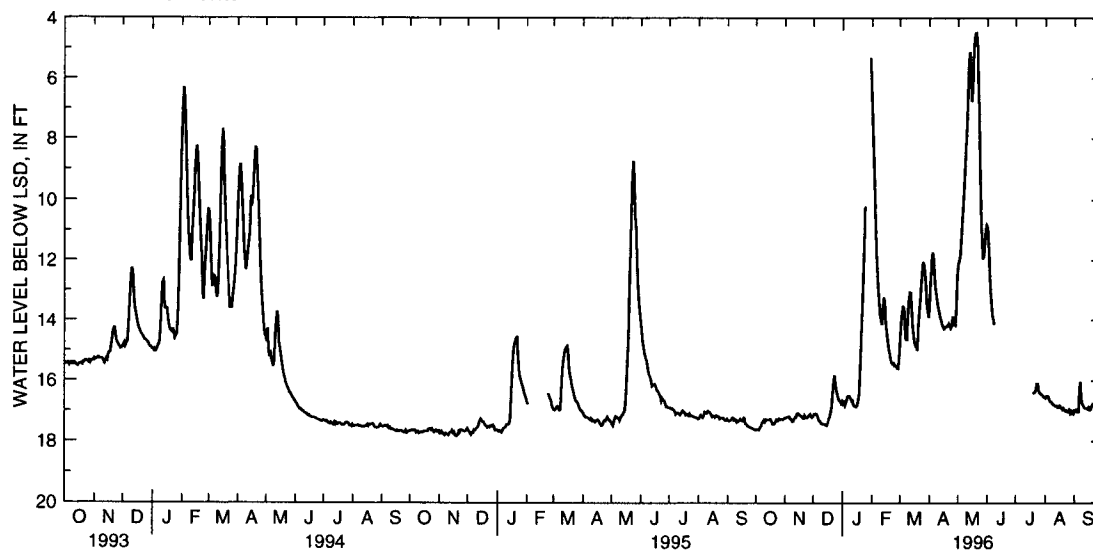
EXTREMES FOR PERIOD OF RECORD.--Highest water level observed, 3.71 ft above land-surface datum, Mar. 13, 1967; lowest, 19.61 ft below land-surface datum, Feb. 13, 1948.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

## DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.62	17.23	17.10	16.76	7.38	14.56	13.35	12.11	10.89	---	16.57	16.97
2	17.61	17.21	17.10	16.71	8.47	14.04	12.63	12.01	11.36	---	16.50	16.95
3	17.62	17.20	17.08	16.81	9.46	13.73	11.99	11.81	12.30	---	16.50	16.96
4	17.63	17.19	17.10	16.74	10.56	13.49	11.72	11.28	12.99	---	16.51	17.04
5	17.54	17.19	17.19	16.63	11.63	13.59	11.89	10.71	13.46	---	16.63	17.03
6	17.52	17.26	17.29	16.51	12.36	14.20	12.49	10.19	13.85	---	16.68	16.26
7	17.40	17.27	17.34	16.51	12.94	14.62	12.88	9.58	13.98	---	16.69	16.04
8	17.35	17.35	17.35	16.51	13.39	14.63	13.10	9.04	14.13	---	16.74	16.59
9	17.30	17.34	17.42	16.58	13.83	13.90	13.36	8.26	---	---	16.78	16.77
10	17.36	17.27	17.42	16.68	14.00	13.37	13.56	7.54	---	---	16.79	16.78
11	17.28	17.21	17.43	16.65	14.13	13.05	13.72	6.48	---	---	16.82	16.86
12	17.29	17.21	17.44	16.81	13.55	13.06	13.90	5.37	---	---	16.83	16.90
13	17.29	17.08	17.45	16.83	13.22	13.56	13.99	5.11	---	---	16.82	16.90
14	17.29	17.07	17.46	16.85	13.43	14.19	14.14	5.89	---	---	16.88	16.91
15	17.28	17.10	17.48	16.86	14.10	14.53	14.21	6.75	---	---	16.88	16.92
16	17.27	17.13	17.38	16.80	14.45	14.74	14.28	6.22	---	---	16.82	16.87
17	17.35	17.16	17.25	16.64	14.67	14.83	14.25	5.03	---	---	16.85	16.96
18	17.43	17.17	17.19	16.43	14.93	14.88	14.20	4.65	---	---	16.89	16.95
19	17.44	17.23	17.03	15.61	15.09	14.98	14.21	4.48	---	16.37	16.95	16.84
20	17.43	17.24	16.85	14.64	15.28	14.21	14.16	4.47	---	16.40	16.91	16.77
21	17.36	17.14	16.40	13.71	15.39	13.69	14.10	4.88	---	16.38	16.95	16.79
22	17.29	17.21	16.00	12.68	15.44	13.29	14.17	6.13	---	16.30	16.99	16.83
23	17.33	17.21	15.83	11.64	15.41	12.81	14.26	7.14	---	16.09	16.97	16.90
24	17.32	17.22	16.09	10.21	15.50	12.36	14.20	9.00	---	16.09	17.02	16.93
25	17.25	17.18	16.31	---	15.49	12.04	13.86	10.45	---	16.33	17.02	16.97
26	17.28	17.14	16.44	---	15.52	12.15	13.97	11.38	---	16.40	16.96	16.96
27	17.28	17.10	16.58	---	15.58	12.40	14.14	11.94	---	16.42	17.06	16.93
28	17.27	17.18	16.65	---	15.59	12.79	14.16	11.84	---	16.46	17.00	16.83
29	17.28	17.21	16.67	---	15.16	13.45	13.60	11.43	---	16.48	17.06	16.72
30	17.26	17.17	16.74	5.30	---	13.70	12.54	11.04	---	16.53	17.01	16.67
31	17.22	---	16.67	6.28	---	13.89	---	10.83	---	16.54	17.06	---
MAX	17.63	17.35	17.48	---	15.59	14.98	14.28	12.11	---	---	17.06	17.04
MIN	17.22	17.07	15.83	---	7.38	12.04	11.72	4.47	---	---	16.50	16.04

WTR YR 1996 HIGH 4.47 LOW 17.63



## GROUND-WATER LEVELS

## JEFFERSON COUNTY

381648085421201. Local number 42-16-15, (WC-5), map number 61.

LOCATION.--Lat 38°16'48", long 85°42'12", Hydrologic Unit 05140101, County Code 111, Jeffersonville quadrangle, 200 ft west of Louisville Water Company pump house, 200 ft south of the Ohio River, 0.2 mi northwest of junction of River Road and Zorn Avenue, in Louisville. Owner: Louisville Water Company.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 4 in., depth 98 ft, screened 96-98 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 435.11 ft above sea level. Measuring point: Top of pipe flange, 2.21 ft above land-surface datum.

REMARKS.--Water levels affected by Ohio River, which causes level to rise above land surface. Water quality collected Apr. 30, 1948.

PERIOD OF RECORD.--May 1946 to current year. May 1946 to April 1977 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.04 ft above land-surface datum, Jan. 17, 1950; lowest measured, 18.31 ft below land-surface datum, Nov. 6, 1946.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 25, 1995	16.81	May 20, 1996	8.11

381653085413302. Local number (WC-9A), map number 62.

LOCATION.--Lat 38°16'53", long 85°41'33", Hydrologic Unit 05140101, County Code 111, Jeffersonville quadrangle, 45 ft east of River Road at Wagner Lane, opposite the southwest corner of Cox Park, in Louisville. Owner: Louisville Water Company.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 1.5 in., depth 90 ft, screened 76-78 ft, 88-90 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 437.65 ft above sea level. Measuring point: Top of casing, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--December 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.40 ft below land-surface datum, May 20, 1996; lowest measured, 19.04 ft below land-surface datum, July 21, 1980.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 25, 1995	18.80	May 20, 1996	6.40

## LARUE COUNTY

374151085413201. Map number 11.

LOCATION.--Lat 37°41'51", long 85°41'32", Hydrologic Unit 05110001, County Code 123, Nelsonville quadrangle, 150 ft west of blacktop road, 1.6 mi northeast of Roanoke, 2.8 mi south of the junction of State Highway 583 and the Blue Grass Parkway. Owner: Charles Wagner.

AQUIFER.--Warsaw Limestone of Late Mississippian age. Aquifer code: 333WRSW.

WELL CHARACTERISTICS.--Drilled unused artesian oil test well, diameter 10 in., depth 605 ft, plugged at 363 ft, cased to 65 ft.

INSTRUMENTATION.--Six-week interval measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 905.34 ft above sea level. Measuring point: Top of casing 1.00 ft above land-surface datum.

REMARKS.--Quality water sample collected and pump test run Apr. 10, 1971. Pumped for 3 hours at 9 gal/min with 4.1 ft of drawdown.

PERIOD OF RECORD.--October 1971 to April 1983 and October 1988 to current year. October 1971 to September 1976 published in hydrograph form and on file at district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 101.81 ft below land-surface datum, Apr. 14, 1980; lowest measured, 111.22 ft below land-surface datum, Nov. 12, 1992.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level	Date	Water Level
Oct. 1, 1995	109.85	Jan. 23, 1996	110.07	Mar. 29, 1996	109.63



## GROUND-WATER LEVELS

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## LAUREL COUNTY

370757084045001. Map number 12.

LOCATION.--Lat 37°07'57", long 84°04'50", Hydrologic Unit 05130101, County Code 125, London quadrangle, in back yard at 116 Boering Drive, 0.1 mi northeast of Marymount Hospital, in London. Owner: J.R. Hale.

AQUIFER.--Lee Formation of Early Pennsylvanian age. Aquifer Code: 327LEE.

WELL CHARACTERISTICS.--Drilled unused artesian and water-table well in sandstone, diameter 12 in., depth 370 ft, length of casing unknown, open hole below casing.

INSTRUMENTATION.--Six-week interval measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum (from topographic map) is about 1,190 ft above sea level. Measuring point: Floor of recorder shelter, 4.13 ft above land-surface datum.

REMARKS.--Lowest water level is a pumping level. Water-quality sample collected and pump test ran Oct. 14, 1965. Pumped 1.2 hours at 11 gal/min with 47.30 ft of drawdown.

PERIOD OF RECORD.--October 1947, May 1951 to September 1962, June 1965 to September 1984 and October 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 39.69 ft below land-surface datum, May 9, 1990, lowest measured, 225.00 ft below land-surface datum, Oct. 25, 1947.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level	Date	Water Level
Oct. 25, 1995	42.34	Jan. 26, 1996	41.67	Mar. 11, 1996	42.09

## LINCOLN COUNTY

372739084402101. Map number 13.

LOCATION.--Lat 37°27'39", long 84°40'21", Hydrologic Unit 05110001, County Code 137, Halls Gap quadrangle, in a pasture, 100 ft north of gravel road, 0.8 mi northeast of Green River Church, 2.1 mi southwest of Halls Gap. Owner: Sarah Peck.

AQUIFER.--Sandstone and shale of Borden Formation of Early Mississippian age. Aquifer code: 338BRDN.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 6 in., depth 33 ft, cased to 10 ft, open hole 10 to 33 ft.

INSTRUMENTATION.--Six-week interval measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum (from topographic map) is 1,060 ft above sea level. Measuring point: Floor of recorder shelter, 2.25 above land-surface datum.

REMARKS.--Water levels affected by atmospheric pressure.

PERIOD OF RECORD.--April 1953 to September 1984 and October 1988 to current year. Well test pump, Oct. 14, 1965. Estimated yield base on recovery, 0.1 gal/min.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.30 ft below land-surface datum, Nov. 6, 1981; lowest measured, 11.39 ft below land-surface datum, Oct. 3, 1995.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level	Date	Water Level
Oct. 3, 1995	11.39	Jan. 11, 1996	8.85	Mar. 28, 1996	8.16
Nov. 30, 1995	10.38	Feb. 14, 1996	8.32		

## LOGAN COUNTY

365046086444901. Map number 14.

LOCATION.--Lat 36°50'46", long 86°44'49", Hydrologic Unit 05130206, County Code 141, Auburn quadrangle, at the southeast corner of an abandoned farmhouse, 90 ft east of Kentucky Highway 980, 0.6 mi south of U.S. Highway 68, 2.4 mi southwest of Auburn. Owner: W.D. Appling.

AQUIFER.--Girkin Formation of Late Mississippian age. Aquifer code: 332GRKN.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 6 in., depth 70 ft, length of casing unknown.

INSTRUMENTATION.--Six-week interval measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum (from topographic map) is 685 ft. Measuring point: Top of casing 0.70 ft above land-surface datum.

REMARKS.--8 in. surface casing, lined with 6 in. casing.

PERIOD OF RECORD.--May to November 1982 and October 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.74 ft below land-surface datum, Feb. 22, 1996; lowest measured, 49.64 ft below land-surface datum, Sept. 21, 1993.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 4, 1995	43.41	Jan. 11, 1996	38.58
Dec. 7, 1995	40.01	Feb. 22, 1996	23.74

## GROUND-WATER LEVELS

## MCCRACKEN COUNTY

370551088510401. Map number 15.

LOCATION.--Lat 37°05'51", long 88°51'04", Hydrologic Unit 05140206, County Code 145, Heath quadrangle, 35 ft south of a gravel road in field of brush, at former Kentucky Ordnance Works, (now managed by Kentucky Department of Fish & Wildlife Resources), 3.4 mi northwest of Heath. Owner: State of Kentucky.

AQUIFER.--Sand of McNairy Formation of Late Cretaceous age. Aquifer code: 211MCNR.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in., depth 192 ft, cased to 192 ft.

INSTRUMENTATION.--Six-week interval measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum (from topographic map) is about 435 ft. Measuring point: Floor of recorder shelter, 4.76 ft above land-surface datum.

PERIOD OF RECORD.--October 1969 to September 1983 and October 1988 to current year. August 1969 to September 1976, published in hydrograph form and on file at Paducah subdistrict office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 105.64 ft below land-surface datum, June 27, 1994; lowest measured, 111.50 ft below land-surface datum, Jan. 25, 1972 and Nov. 9, 1988.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 10, 1995	107.63	Jan. 8, 1996	108.41
Dec. 7, 1995	108.21	Mar. 5, 1996	108.42

## METCALFE COUNTY

370211085364301. Map number 16.

LOCATION.--Lat 37°02'11", long 85°36'43", Hydrologic Unit 05110001, County Code 169, East Fork quadrangle, at an old homesite 150 ft south of a blacktop road, 0.5 mi southwest of Metcalfe County Lake, 0.9 mi northwest of junction of U.S. Highway 68 and State Highway 544, 6 mi southeast of Sulphur well. Owner: Larry Froedge.

AQUIFER.--Salem and Warsaw Limestones of Late Mississippian age. Aquifer code: 333SMWR

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 6 in., depth 106 ft, length of casing unknown.

INSTRUMENTATION.--Six-week interval measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum (from topographic map) is about 885 ft. Measuring point: Top of casing, 0.58 ft above land-surface datum.

PERIOD OF RECORD.--October 1979 to April 1983 and October 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 72.67 ft below land-surface datum, Feb. 25, 1994; lowest measured, 77.88 ft below land-surface datum, Jan. 30, 1981.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level	Date	Water Level
Oct. 13, 1995	75.80	Jan. 19, 1996	75.03	Mar. 28, 1996	74.95
Dec. 7, 1995	75.87	Feb. 21, 1996	73.93		

## WARREN COUNTY

370342086080101. Map number 17.

LOCATION.--Lat 37°03'42", long 86°08'01", Hydrologic Unit 05110002, County Code 227, Smiths grove quadrangle, in a pasture 50 ft southwest of a stone farm house, 200 ft south of State Highway 65, 0.6 mi southeast of Rocky Hill. Owner: Earl Estes.

AQUIFER.--St. Louis Limestone of Late Mississippian age. Aquifer code: 333STLS.

WELL CHARACTERISTICS.--Drilled unused artesian and water-table well, diameter 6 in., depth 95 ft, length of casing unknown.

INSTRUMENTATION.--Six-week interval measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum (from topographic map) is about 645 ft. Measuring point: Floor of recorder shelter, 2.10 ft above land-surface datum.

PERIOD OF RECORD.--November 1961 to January 1983 and October 1988 to current year. November 1961 to September 1976 published in hydrograph form and on file at district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 57.19 ft below land-surface datum, Mar. 15, 1975; lowest measured, 76.95 ft below land-surface datum, Dec. 31, 1962.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Water Level	Date	Water Level
Oct. 5, 1995	70.24	Jan. 10, 1996	70.30
Dec. 6, 1995	70.54	Feb. 21, 1996	68.88